BIBLIOGRAPHY OF IRISH INSECTS (1802-2020)

James P. O'Connor



Occasional Electronic Publication of the Irish Biogeographical Society
Number 2, 2023



Above

Mating Juniper Shieldbugs (*Cyphostethus tristriatus*) on Lawson's Cypress, Tipperary, 18 June 2019, photograph: Larry Doherty (Alamy).

In 1995, *Cyphostethus tristriatus* was collected by the author on a Lawson's Cypress in his back garden in Castleknock (County Dublin). It was the first Irish record since Tardy collected the species in eastern Ireland in the early eighteen hundreds.

Further information will be found in O'Connor, J. P. and Ashe, P. (1996) *Elasmostethus tristriatus* (F.) (Hem., Acanthosomatidae), confirmed as an Irish species. *Entomologist's Monthly Magazine* **132**: 314.

The Front Cover

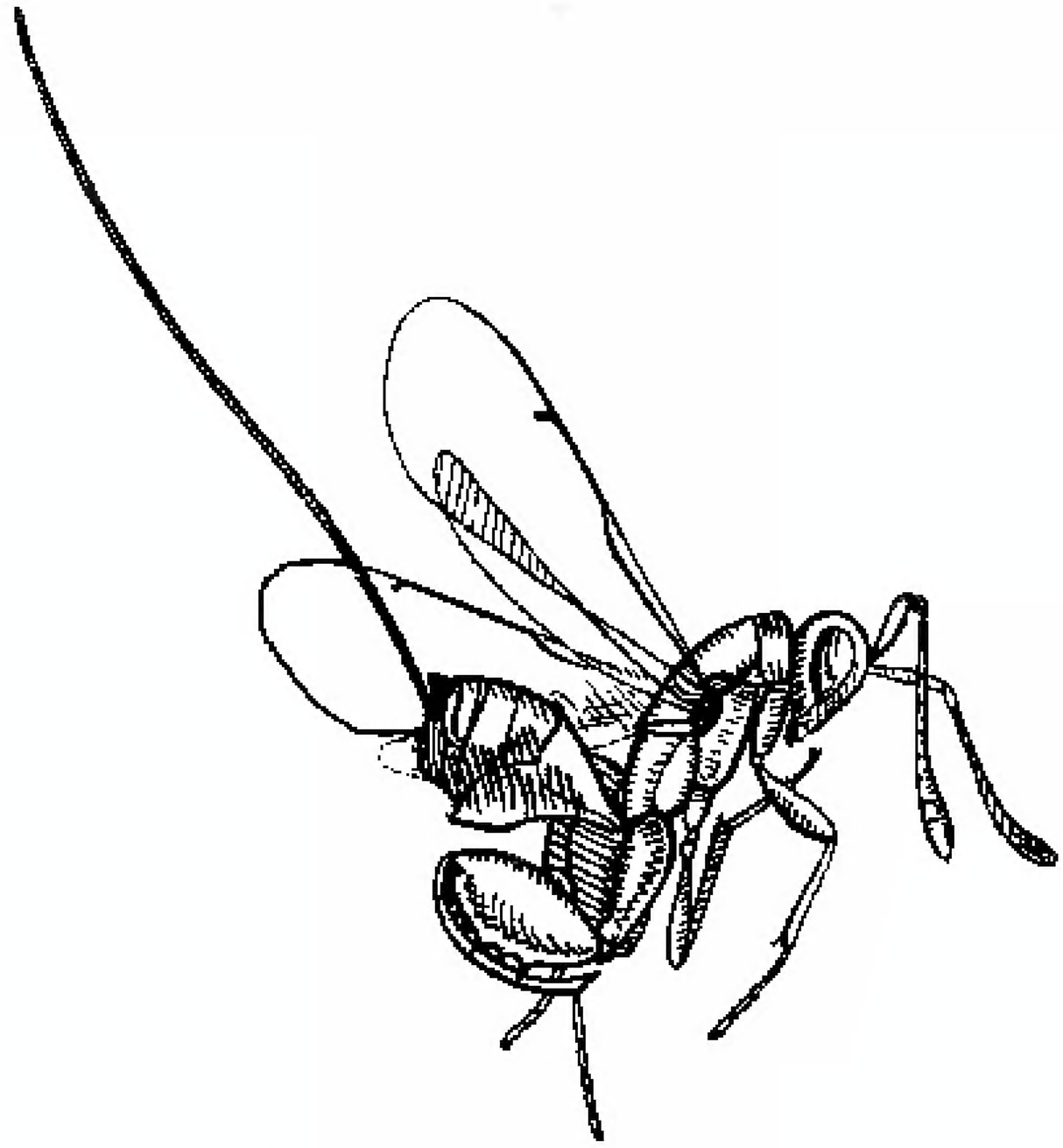
Red-headed Cardinal Beetle (*Pyrochroa serraticornis*), Tipperary, 26 May 2018, photograph: Larry Doherty (Alamy).

The first Irish record dates from 1863 when Furlong found *Pyrochroa serraticornis* at Adare Demense (County Limerick) (Haliday ms). Subsequently, Bouskell reported larvae and an adult from Caragh Lake (County Kerry) in 1903. In June 1982, this striking species was rediscovered in Ireland by the author and his wife Mary when they collected adults at two sites (Counties Carlow and Wexford).

Further information will be found in O'Connor, J. P. and O'Connor, M. A. (1984) Two recent Irish records of *Pyrochroa serraticornis* (Scopoli) (Col., Pyrochroidae). *Entomologist's Monthly Magazine* **120**: 54.

BIBLIOGRAPHY OF IRISH INSECTS (1802-2020)

by
James P. O'Connor
Emeritus Entomologist and former Keeper of Natural History
National Museum of Ireland – Natural History, Dublin D02 F627, Ireland.
e-mail: <joconnor@museum.ie>



Series Editor: J. P. O'Connor

Date of Publication: 28 February 2023

Published by the Irish Biogeographical Society

Occasional Electronic Publication of the Irish Biogeographical Society
Number 2, 2023

Copyright © James P. O'Connor

ISBN 978-1-9164218-2-0

Published by the Irish Biogeographical Society, Dublin, Ireland

The Irish Biogeographical Society desires it to be understood that it is not answerable for any opinion, representation of facts or train of reasoning that may appear in this publication. The author is alone responsible for the contents and for the correctness of the references.

Title page

A torymid wasp (Hymenoptera) by the famous Irish entomologist Alexander H. Haliday (1806-1870). It is one of a number of figures of Hymenoptera drawn by him for Francis Walker and was published in volume 1 of *The Entomologist* (1841-1842). Haliday's authorship is indicated by a shamrock on each plate. A selection of these figures were used as illustrations on the front cover of *A Bibliography of Irish Entomology*.

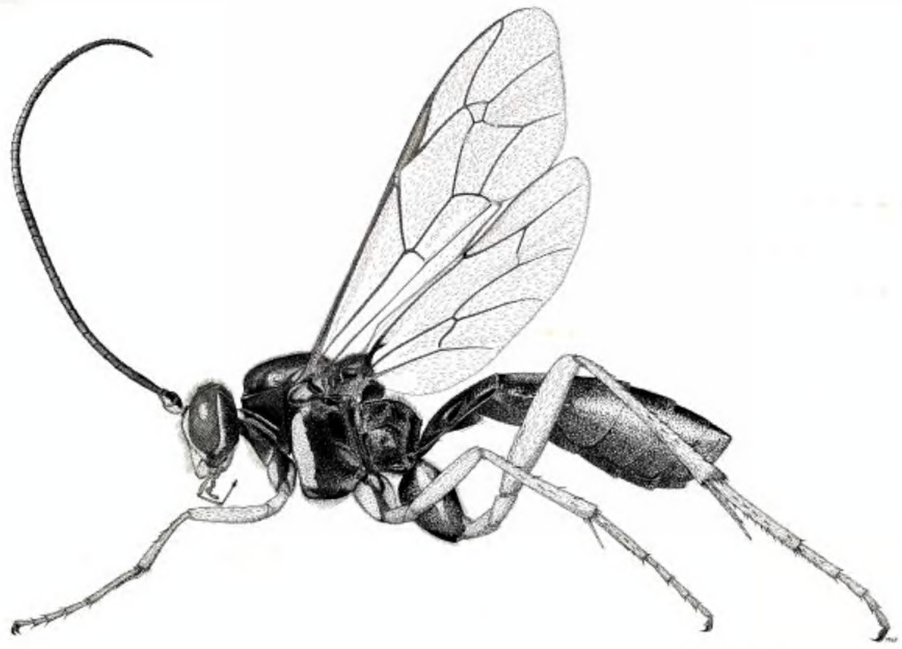
Contents page

Illustration of an Ichneumonid Wasp (*Banchus* species) by M. G. Fitton. For further information on these insects see O'Connor, J. P., Nash, R. and Fitton, M. G. (2007) *A catalogue of the Irish Ichneumonidae (Hymenoptera: Ichneumonoidea)*. Occasional Publication of the Irish Biogeographical Society **Number 10**: 310pp.

PDF copies of *Bibliography of Irish Insects (1802-2020)* may be downloaded free of charge from the Society's website @ <http://www.irishbiogeographicalsociety.com/>

CONTENTS

Introduction..... *1
Layout and use..... *2
Abbreviations used for insect orders (Past and Present)..... *2
Journal abbreviations used in the text..... *2
Access to references..... *3
Acknowledgements..... *3
1. *General papers..... *5
2. *Anoplura & *Mallophaga (*Phthiraptera)..... *45
3. *Diplura, *Microcoryphia, *Protura & *Thysanura (*Archaeognatha & *Zygentoma)..... *47
4. *Coleoptera & *Strepsiptera..... *50
5. *Collembola..... *131
6. *Dermaptera..... *136
7. *Diptera..... *138
8. *Ephemeroptera..... *215
9. *Hemiptera..... *223
10. *Hymenoptera..... *251
11. *Lepidoptera..... *316
12. *Mecoptera, *Megaloptera & *Neuroptera..... *438
13. *Odonata..... *443
14. *Orthoptera & *Dictyoptera..... *456
15. *Plecoptera..... *462
16. *Psocoptera..... *469
17. *Siphonaptera (*Aphaniptera)..... *472
18. *Thysanoptera..... *477
19. *Trichoptera..... *480
20. *Pests..... *494
Appendix. A list of the journals which contained articles on Irish insects..... *514
Endpiece..... *523
Author Index..... *524
The Back Cover. The Window Winged Sedge (*Hagenella clathrata*)..... *566



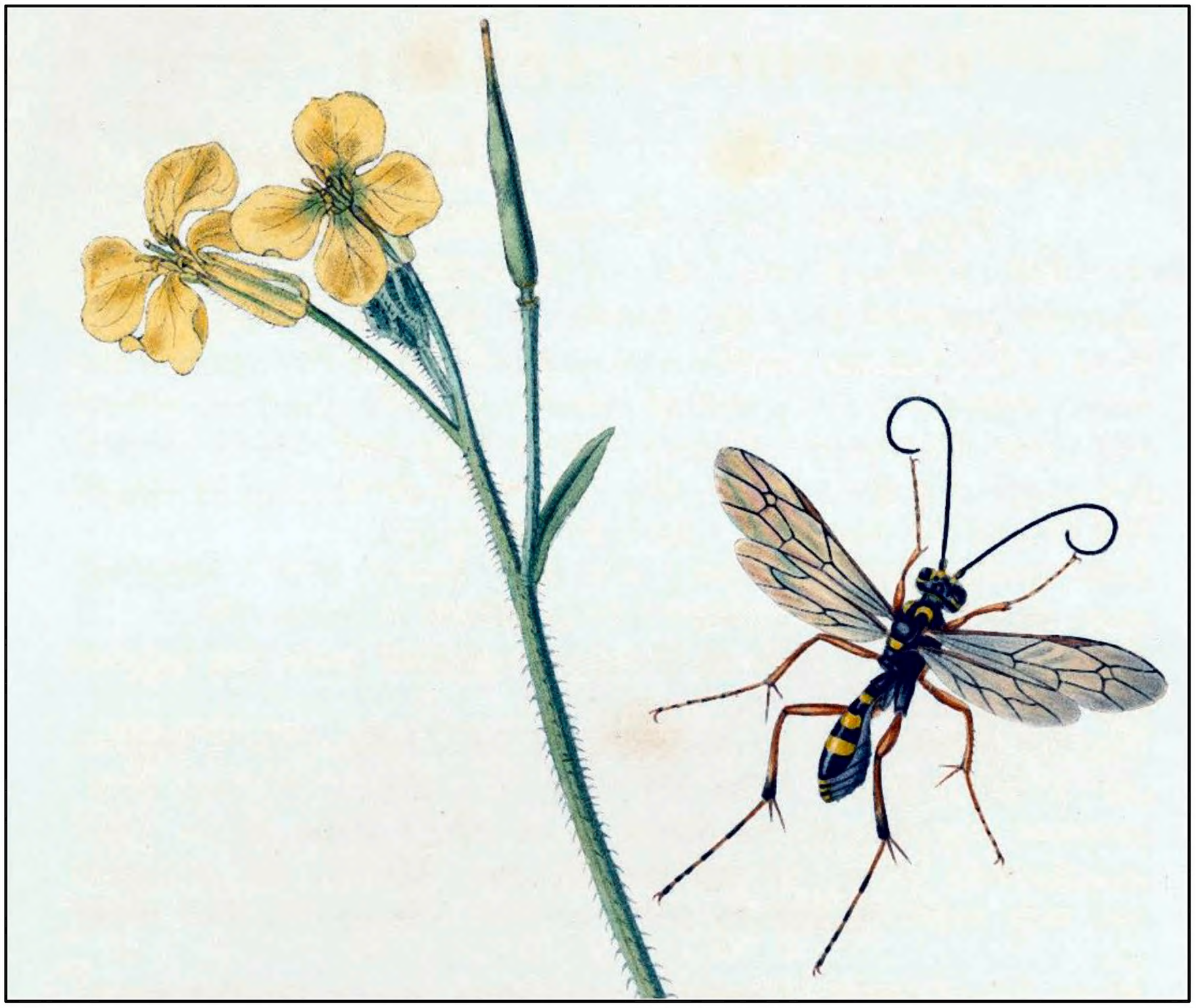


PLATE 1. Details from plate 588 and accompanying text of *Banchus farrani* Curtis (now *B. volutatorius*) from volume 3 (1836) of Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.*

Introduction

In 1979, Professor Bryan Beirne published *An Annotated and Classified Bibliography of Irish Entomology (to 1948 for Lepidoptera: 1946 for other orders).* This was followed by *A Bibliography of Irish Entomology* (Ryan, O'Connor and Beirne, 1984) which was dedicated to the memory of James N. Halbert. Ryan and O'Connor added references to Beirne's original compilation up to a cut-off point of 1980. Corrections were also made. As the second work proved popular with entomologists, the *First Supplement to A Bibliography of Irish Entomology* was subsequently published (O'Connor, Ashe and Walsh, 2005). It covered the period 1981-2000 for journals already abstracted and was dedicated to the memory of Bryan Beirne who had died in 1998. New journals were added along with some books. Books had not been included in the previous volumes.

After retirement from the National Museum of Ireland, the author compiled the *Second Supplement to A Bibliography of Irish Entomology* (O'Connor, 2012). This volume covered the period 2001-2011. It was dedicated to the memory of my deceased parents Patrick and Mary O'Connor.

The Covid-19 crisis provided the opportunity to continue the bibliographic research. Originally, the author only planned to make PDFs of *A Bibliography of Irish Entomology* and its two supplements available on the Irish Biogeographical Society's website. Despite the use of a modern scanner, the PDF of the *Bibliography* was of poor quality and the text had to be retyped. The Supplements (1981-2011) were then retyped and all three works combined. Errors were corrected, spaces eliminated and new references added including more books. The literature was extended back to 1802 and updated to 2020. The typed text was then converted into the present book *Bibliography of Irish insects (1802-2020)* to be made available for download as a searchable PDF *Occasional Electronic Publication of the Irish Biogeographical Society* **Number 2** from the Irish Biogeographical Society's web site <http://www.irishbiogeographicalsociety.com/>.

James P. O'Connor
23 February 2023

Layout and use

References are grouped into 20 chapters. An asterisk has been added to the names in the chapter headings so that they can be easily searched for within the PDF using the alt + f function when the asterisk is used (e.g. *Diptera, *General). In each chapter, references are arranged by author listed alphabetically and chronologically. Some have annotations after them in brackets, providing additional information on content. Where the author(s) of an entry are exactly the same as in the preceding one, the name(s) are replaced by a line ——. If the initials are different, the name(s) are given in full. As references are listed in full on each page, insect silhouettes have been used as spacers. One indicates a page break while four end a chapter.

Some abbreviations have been used viz. (1) for orders in the annotations (Table 1), (2) for the most frequently cite journals or those with very long titles (Table 2). A list of the journals which contained references to Irish insects is given in the Appendix.

TABLE 1. Abbreviations used for insect orders (past and present)

The following are only given in full: Aphaniptera, Aptera, Archaeognatha, Diplura, Mecoptera, Microcoryphia, Phthiraptera, Protura, Semblidae, Thysanura and Zygentoma

Anop. = Anoplura
Apt. = Apterygota
Col. = Coleoptera
Coll. = Collembola
Derm. = Dermaptera
Dicty. = Dictyoptera
Dipt. = Diptera
Eph. = Ephemeroptera
Hem. = Hemiptera
Hym. = Hymenoptera
Lep. = Lepidoptera
Mall. = Mallophaga
Megal. = Megaloptera
Neur. = Neuroptera
Odon. = Odonata
Orth. = Orthoptera
Plec. = Plecoptera
Psoc. = Psocoptera
Siphon. = Siphonaptera
Strep. = Strepsiptera
Thysan. = Thyanoptera
Trich. = Trichoptera

TABLE 2. Journal abbreviations used in the text.

Ann. Rept. N.I. = Annual Report on Research and Technical Work of the Ministry of Agriculture in Northern Ireland
Entomologist's mon. Mag. = The Entomologist's Monthly Magazine
Entomologist's Rec. J. Var. = The Entomologist's Record and Journal of Variation
Ir. Nat. J. = Irish Naturalists' Journal
Ir. Nat. = The Irish Naturalist
J.D. Ag. & T.I. for Ire. = Journal of the Department of Agriculture & Technical Instruction for Ireland
Verh. Internat. Verein. Limnol. = Verhandlungen der Internationale Vereinigung für Theoretische und Angewandte Limnologie

Access to references

Many of the references contained in this Bibliography may be accessed using the internet particularly through websites such as JSTOR <https://www.jstor>, ResearchGate <https://www.researchgate.net>, Google books <https://books.google.ie/>, the Biodiversity Heritage Library <https://www.biodiversitylibrary.org> and the Irish Biogeographical Society < http://www.irishbiogeographicalsociety.com/>.

Other useful sources are the National Library of Ireland, the Royal Dublin Society, the Royal Irish Academy, the entomological library of the National Museum of Ireland - Natural History, the entomological library of the Natural History Museum London, the British Library, the Royal Entomological Society of London and the entomological library of the Natural History Museum, Oxford. Useful holdings will be also found in the Irish universities, the National Museums Northern Ireland and the Department of Agriculture, Food and the Marine.

Acknowledgements

The author wishes to thank †Professor Bryan Beirne, †Dr Paddy Ashe, Dr Jim Ryan and John Walsh for their considerable input; the National Museum of Ireland including Nigel Monaghan, Raghnall Ó Floinn, †Dr Colm O'Riordan, †Breandán O'Ríordáin and Dr Pat Wallace for encouraging and supporting my entomological research; the librarian staff of the National Museum of Ireland, the Department of Department of Agriculture, Food and the Marine, the National Library of Ireland, the Natural History Museum, London, the Royal Entomological Society of London, the Royal Dublin Society, the Royal Irish Academy and University College Dublin for tracing and providing literature. I am also very grateful to Dr Paddy Ashe, Emeritus Professor Tom Bolger, Emeritus Associate Professor Declan Murray and John Walsh for reading the manuscript and for their valuable comments on it. In addition, I wish to thank Caitriona Carlin, Larry Doherty and Martin Gammell for their beautiful photographs; Robert Nash for the Curtis plate and text; Dr Mike Fitton for his drawing of *Banchus*. Most of the silhouettes were provided by Alamy (RAFI RONNY WAZIER RONNY WAZIER).

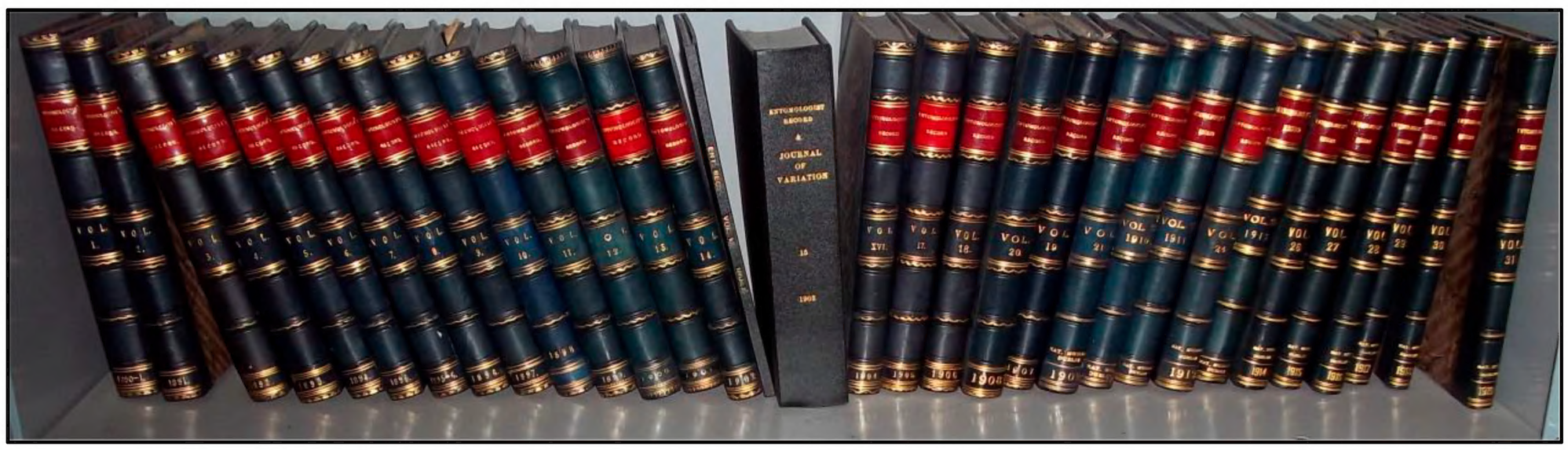


PLATE 2. Section of the Entomological Library of the National Museum of Ireland – Natural History. The volumes shown are of the *Entomologist's Record & Journal of Variation* (1890-1918). The beautiful binding was the work of the Museum Book Binder. The volume in black is a more recent replacement of a missing one. Photograph: J. P. O'Connor.



PLATE 3. The National Museum of Ireland – Natural History, Dublin (aka The Natural History Museum or the Dead Zoo). Photograph: J. P. O'Connor.

CHAPTER 1. *GENERAL PAPERS

Anon. (1837) Notes of an Irish insect-hunter. *The Entomological Magazine* **5**: 140-168.

—— (1857) Obituary notice - Dr Robert Ball. *Annals and Magazine of Natural History* Series 2. **19**: 432.

—— (1892) (Hem., Lep., Odon., Trich.). *Ir. Nat.* **1**: 102.

—— (1894) (Apt., Col., Hem., Lep., Odon., Orth., Plec.). *Ir. Nat.* **3**: 182-184.

—— (1895) Dublin Naturalists' Field Club. *Ir. Nat.* **4**: 221-222. (Col., Dipt., Hem.)

—— (1897) (Excursion to Ferns). *Ir. Nat.* **6**: 279. (Col., Hem.)

—— (1898) (Col., Hym., Lep., Orth.). *Ir. Nat.* **7**: 57-58.

—— (1900) (Hare Is., Inchcleraun, Clonmacnoise). *Ir. Nat.* **9**: 19-20. (Col., Hym., Lep.)

—— (1903) (Col., Hym., Lep., Odon.). *Ir. Nat.* **12**: 208-209.

—— (1907) (Apt., Hem.). *Ir. Nat.* **16**: 347.

—— (1909) (Excursion to Brittas Bay). *Ir. Nat.* **18**: 228. (Col., Lep.)

—— (1912) (Col., Hym., Lep.). *Proceedings of the Belfast Naturalists' Field Club* **6** (n.s.): 596.

—— (1949) The recording in a biological survey (Irish Ordnance Department Survey). *Entomologist's Rec. J. Var.* **61**: 132. plate 4.

—— (1950) Insect migration records. *Ir. Nat. J.* **10**: 71. (appeal for collectors)

—— (1952) Crow Glen, Co. Antrim: a group study by members of Belfast Naturalists' Field Club. *Ir. Nat. J.* **10**: 266-273.

—— (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222. (Col., Coll., Dipt., Eph., Hem., Plec., Trich.)

—— (2007) Royal Irish Academy. Praeger Fund for Field Natural History. *Ir. Nat. J.* **28** (2006): 335. (Col., Dipt., Lep., Trich.)

—— (2008) The Marsh Award for Insect Conservation. Dr Martin C. D. Speight. *Antenna* **32**: 126.

—— (2008) Celebrating Irish entomologists. *Biodiversity Ireland* **Issue 2**: 13. (Ken Bond, Martin Speight)

—— (2011) Meeting reports. 'Invasive insects: implications for plant health, animal health, public health and the environment'. *Antenna* **35**: 192. (beetle invasions, bumblebees, Harlequin Ladybird, mosquitoes, Western Corn Rootworm)

—— (2012) Distinguished Recorder Award 2011 Drs Tina Aughney and Roy Anderson. *Biodiversity Ireland* **Issue 9**: 22. (bibliographical information)

—— (2012) Distinguished Recorder Award 2012 Don C. F. Cotton. *Biodiversity Ireland* **Issue 10**: 21. (bibliographic information)

—— (2012) News from the Centre. *Biodiversity Ireland* **Issue 10**: 22.

—— (2013) 'John Curtis (entomologist)'. *Wikipedia, The Free Encyclopedia,* 12 October 2013, 15:01 UTC. <http://en.wikipedia.org/w/index. php? title= John_Curtis_ (entomologist)&oldid=576864901>

—— (2015) Distinguished Recorder Award 2014 Dr. Joanne Denyer and Dr. Tom Gittings. *Biodiversity Ireland* **Issue 11**: 4. (bibliographic information)

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54. (Col., Dipt., Eph., Hem., Plec., Trich.)

Alcock, N. H. and Moffat, C. B. (1911) The natural history of Irish bats. *Ir. Nat.* **10**: 241-251. (Col., Dipt., Lep.)

Alexander, K. N. A. (1994) *Miscodera arctica* (Paykull), *Notiophilus aesthuans* (Motschulsky) (Coleoptera: Carabidae) and *Pontania crassipes* (C. G. Thomson) (Hymenoptera: Tenthredinidae), insects new to Ireland from the summit of Slieve Donard, Co Down. *Ir. Nat. J.* **24**: 463-464.

—— (1995) Historic parks and pasture-woodlands; the National Trust resource and its conservation. Pp 155-175. *In* Bullock, D. J. and Harvey, H. J. (eds) *The National Trust and nature conservation: 100 years on. Biological Journal of the Linnaean Society* **56** (Supplement).

—— (2002) The invertebrates of living and decaying timber in Britain and Ireland. A provisional annotated checklist. *English Nature Research Reports* **No. 467**. English Nature, Peterborough. (Col., Dipt., Hem., Hym., Lep.)

Allen, D., Woodrow, W., Mellon, C., Hughes, M. and Nelson, B. (2012) A selection of invertebrates closely associated with Marsh Fritillary *Euphydryas aurinia* (Rott.) habitat and Devil's-bit Scabious *Succisa pratensis* in Ireland. *Atropos* **46**: 48-55. (Col., Hem., Hym., Lep.)

A. M. E. (1972) Obituary. Captain John Ellerton, D.S.C., R.N., 1910-1971. *Proceedings and Transactions of the British Entomological and Natural History Society* **5**: 74-75. (collected in Ireland)

Anderson, A., Carnus, T., Helden, A. J., Sheridan, H. and Purvis, G. (2013) The influence of conservation field margins in intensively managed grazing land on communities of five arthropod trophic groups. *Insect Conservation and Diversity* **6**: 201-211. (Col., Dipt., Hem., Hym.)

Anderson, A., Helden, A. J., Purvis, G. and Kirwan, L. (2005) Assessing indicators of biodiversity in agricultural grasslands? Some preliminary results from monitoring grassland arthropods. *Tearmann: The Irish Journal of Agri-environmental Research* **4**: 51-65.

Anderson, R. (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337. (Col., Dipt., Eph., Hem., Hym., Lep., Mec., Odon., Plec., Strep.)

—— (2008) Insect and invertebrate review 2006-2007. *Ir. Nat. J.* **29**: 66-69. (Col., Dipt., Hem., Hym., Strep.)

—— (2008) Terrestrial invertebrates. *Biodiversity Ireland* **Issue 1**: 9-11. (Col., Dipt., Hem., Hym., Strep.)

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland. (Col., Derm., Dipt.: Syrphidae (Hoverflies) and Tabanidae (Horseflies), Hem., Hym.: Symphyta, Aculeata, Lep., Odon.)

Armstrong, E. A. (1953) Nidicoles and parasites of the wren. *Ir. Nat. J.* **11**: 57-64.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

—— (2005) A checklist of Irish aquatic insects. InvertebrateIreland Online, Ulster Museum, Belfast and National Museum of Ireland, Dublin.

Austin, A. (2002) The Dublin Naturalists Field Club Report for 1999. *Ir. Nat. J.* **26** (2001): 432-433. (butterfly recording)

B. G. (1978) Obituaries. Denzil Walter Hugh Ffennell. *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 34-35, plate III. (collected in Ireland)

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10. (Col., Coll., Dipt., Hem., Hym., Lep.)

Baars, J.-R. and Kelly-Quinn, M. (2005) Monitoring freshwater diversity in streams draining catchments under intensive agricultural activities in Ireland. *Tearmann* **4**: 91-102.

Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248. (Col., Dipt., Eph., Hem., Odon., Plec., Trich.)

Baker, R. and Gill, D. (2017) Men, microscopes and meetings - the nineteenth century Dublin microscopists and their work. *Ir. Nat. J.* **35**: 110-115.

Baker, R. A. (2013) Cynthia Evelyn Longfield (1896-1991) - the Irish connection and collections. *Journal of the British Dragonfly Society* **29***:* 23-39.

—— (2013) Birds, bugs, bogs, botany and biodiversity: some clergymen naturalists associated with Ireland. *Ir. Nat. J.* **33**: 28-34.

Baker, R. A. and Bayliss, R. A. (2003) A comment on the life and work of Professor Gregg Wilson (1865-1951) of Queen's College and University, Belfast and the links between professional and amateur naturalists in Ireland in the late nineteenth and early twentieth centuries. *Ir. Nat. J.* **27**: 174-183. (insect lectures, mosquitoes)

—— (2005) James Nathaniel Halbert (1872-1948): Irish acarologist, entomologist and museum naturalist – with special reference to acarology. *Ir. Nat. J.* **28**: 107-115.

Balfour-Browne, F. (1950) Note. *Entomologist's Rec. J. Var.* **62**: 36.

Bannon, E. and Purvis, G. (1993) Pests and diseases of agricultural crops. Pp 17-30. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Col., Coll., Dipt., Hem.)

Barnard, P. C. (ed.) (1999) *Identifying British insects and arachnids. An annotated bibliography of key works.* Cambridge University Press, Cambridge. 353pp.

Bateman, P. L. G. (1991) Norman Ernest Hickin PhD., BSc., FRES, F.I.Biol., FZS. *Braueria* **18**: 22. (reproduced from *Antenna* **15** (April 1991))

Baynes, E. S. A. (1949) Irish insect records. *Ir. Nat. J.* **9**: 338-339. (Dipt., Hym., Lep., Odon.)

—— (1950) Attracting insects by ultra-violet light. *Entomologist's Gazette* **1**: 159-160.

—— (1951) Report on migrant insects in Ireland for 1950. *Ir. Nat. J.* **10**: 134-135.

—— (1952) Report on migrant insects in Ireland for 1951. *Ir. Nat. J.* **10**: 247-248. (Hym., Lep.)

—— (1953) Report on migrant insects in Ireland for 1952. *Ir. Nat. J.* **11**: 45-47. (Dipt., Lep.)

—— (1954) Report on migrant insects in Ireland for 1953. *Ir. Nat. J.* **11**: 195-197. (Dipt., Lep.)

—— (1955) Report on migrant insects in Ireland for 1954. *Ir. Nat. J.* **11**: 286-287. (Lep., Odon., Orth.)

Baynes, E. S. A. (1956) Report on migrant insects in Ireland for 1955. *Ir. Nat. J.* **12**: 25-28. (Lep., Odon.)

—— (1958) Report on migrant insects in Ireland for 1957. *Ir. Nat. J.* **12**: 253-255. (Hym., Lep.)

—— (1959) Report on migrant insects in Ireland for 1958. *Ir. Nat. J.* **13**: 25-29. (Lep., Neur.)

—— (1960) Report on migrant insects in Ireland for 1959. *Ir. Nat. J.* **13**: 111-116.

—— (1961) Report on migrant insects in Ireland for 1960. *Ir. Nat. J.* **13**: 200-204.

—— (1962) Report on migrant insects in Ireland for 1961. *Ir. Nat. J.* **14**: 1-3.

—— (1963) Report on migrant insects in Ireland for 1962. *Ir. Nat. J.* **14**: 86-89.

—— (1964) Report on migrant insects in Ireland for 1963. *Ir. Nat. J.* **14**: 253-254. (Col., Dipt., Lep.)

—— (1967) Report on migrant insects in Ireland for 1966. *Ir. Nat. J.* **15**: 277-280.

—— (1969) Report on migrant insects in Ireland for 1968. *Ir. Nat. J.* **16**: 145-147. (Lep., Odon.)

—— (1970) Report on migrant insects in Ireland for 1969. *Ir. Nat. J.* **16**: 291-294. (Lep., Odon.)

—— (1971) Report on migrant insects in Ireland for 1970. *Ir. Nat. J.* **17**: 32-33. (Lep., Odon.)

Becerra Jurado, G., Callanan, M., Gioria, M., Baars J.-R., Harrington, R. and Kelly-Quinn, M. (2009) Comparison of macroinvertebrate community structure and driving environmental factors in natural and wastewater treatment ponds. *Hydrobiologia* **634**: 153-165.

Becerra-Jurado, G., Harrington, R. and Kelly-Quinn, M. (2011) A review of the potential of surface flow constructed wetlands to enhance macroinvertebrate diversity in agricultural landscapes with particular reference to Integrated Constructed Wetlands (ICWs). *Hydrobiologia* Online First™, 6 October 2011.

—— (2012) A review of the potential of surface flow constructed wetlands to enhance macroinvertebrate diversity in agricultural landscapes with particular reference to Integrated Constructed Wetlands (ICWs). *Hydrobiologia* **692**: 121-130.

Becerra Jurado, G., Johnson, J., Feeley, H., Harrington, R. and Kelly-Quinn, M. (2010) The potential of Integrated Constructed Wetlands (ICWs) to enhance macroinvertebrate diversity in agricultural landscapes. *Wetlands* **30**: 393-404.

Becerra Jurado, G., Masterson, M., Harrington, R., Baars, J.-R. and Kelly-Quinn, M. (2008) Macroinvertebrate diversity in constructed ponds: community structure and driving environmental factors. *Verh. Internat. Verein. Limnol.* **30**: 489-492.

Becerra-Jurado, G., Masterson, M., Harrington, R. and Kelly-Quinn, M. (2008) Evaluation of sampling methods for biodiversity estimation in heavily vegetated ponds. *Hydrobiologia* **597**: 97-107. (includes Col., Dipt., Hem.)

Beirne, B. P. (1947) The development of Irish entomology. *Ir. Nat. J.* **9**: 81-84.

—— (1948) Notes on the origin and history of the British insect fauna. *Proceedings of the Royal Entomological Society of London A* **23**: 1-8.

—— (1948) Obituary. J. N. Halbert, 1872-1949. *Ir. Nat. J.* **9**: 167-171.

—— (1952) Insects found in foodstuffs and stored products in Ireland. *Entomologist's Gazette* **3**: 81-84.

Beirne, B. P. (1952) *The origin and history of the British fauna.* Methuen, London.

—— (1953) The curious entomological activities of the Hon. R. E. Dillon. *Entomologist's Gazette* **4**: 67-72.

—— (1953) It happened at..... *Entomologist's Gazette* **4**: 34-35.

—— (1953) It happened at..... *Entomologist's Gazette* **4**: 35-36.

—— (1979) *An annotated and classified bibliography of Irish entomology: (to 1948 for Lepidoptera; 1946 for other orders)*. Pest management papers **No. 17**. Simon Fraser University, Pestology Centre, Burnaby, B.C., Canada.

—— (1985) Irish entomology: the first hundred years. *Ir. Nat. J. Special Entomological Supplement*: 1-40.

Beirne, B. P. and Harris, J. R. (1946) Light-trap captures in Ireland in 1945 (Eph., Lep., Plec., Trich.). *Entomologist's Rec. J. Var.* **58**: 46-49.

Berg, C. W. (1975) Some insects collected in Eire, 1971. *Entomologist's mon. Mag.* **110** (1974): 66.

Biggs, S., Von Fumetti, S. and Kelly-Quinn, M. (2017) The importance of small waterbodies for biodiversity and ecosystem services: implications for policy makers. *Hydrobiologia* **793**: 3-39.

Blackith, R. E. and Blackith, R. M. (1990) Insect infestations of small corpses. *Journal of Natural History* **24**: 699-709. (Dipt., Hym., Lep.)

Blackith. R. M. (1975) Interrelationships between small arthropods and nematodes in peat. *Proceedings of the Royal Irish Academy* **75**B: 531-542.

Blackith, R. M. and Speight, M. C. D. (1974) The food and feeding habits of the frog (*Rana temporaria* L.) in bogland habitats in the West of Ireland. *Journal of Zoology, London* **1972**: 67-79.

Boland, R. and Bolger, T. (2014) What Ireland's soil macroinvertebrate fauna can tell us about postglacial colonisation. Pp 100-106. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Col.: Carabidae)

Bolger, T. (1997) George Herbert Carpenter. Pp 1-3. *In* Bolger, T. (ed.) *Proceedings of IX International Colloquium on Apterygota, Dublin 1996. Pedobiologia* **41**: 1-224. (Coll., Dipt., Orth., Thysanura)

Bolger, T., Bracken, J. J. and Dauod, H. A. (1990) The feeding relationships of brown trout, minnow and three-spined stickleback in an upland reservoir system. *Hydrobiologia* **208**: 169-185.

Bolger, T., Callanan, M., Kelly-Quinn, M., Nelson, B. and Regan, E. (2010) Insects. Pp 21-23. *In* FitzPatrick, U., Regan, E. and Lysaght, L. (eds) *Ireland's Biodiversity in 2010: State of Knowledge*. National Biodiversity Data Centre, Waterford.

Bolger, T. and Curry, J. P. (1980) Effects of cattle slurry on soil arthropods in grassland. *Pedobiologia* **20**: 246-253. (Col., Coll. (named to species), Dipt.)

Bolger, T., O'Connor, B., Picton, B. and Regan, E. (2010) Non-insect invertebrates. Pp 17-20. *In* FitzPatrick, Ú., Regan, E. and Lysaght, L. (eds) *Ireland's Biodiversity in 2010: State of Knowledge.* National Biodiversity Data Centre, Waterford.

Bonaparte-Wyse, L. H. (1897) Entomological notes from S.E. Ireland. *Ir. Nat.* **6**: 220-221. (Col., Lep.)

Bonaparte-Wyse, L. H. (1906) Entomological notes from S.W. Ireland. *Ir. Nat.* **15**: 234. (Col., Lep.)

—— (1907) Entomological notes from Co. Mayo. *Ir. Nat.* **16**: 368-370. (Col., Lep.)

—— (1912) Entomological notes from Co. Galway. *Ir. Nat.* **21**: 37-39. (Col., Lep.)

—— (1913) Lepidoptera and Coleoptera from Co. Kerry. *Ir. Nat.* **22**: 75-76. (Col., Lep.)

—— (1914) Lepidoptera and Coleoptera from County Waterford. *Ir. Nat.* **23**: 22. (Col., Lep.)

—— (1920) Some Coleoptera and Lepidoptera from Co. Kerry. *Ir. Nat.* **29**: 61-64. (Col., Lep.)

Bonaparte-Wyse, L. H. and Wright, G. (1855) A fungi parasitic on insects; with particular reference to some lately discovered Irish specimens. *The Natural History Review (Proceedings of Societies)* **2**: 55-59.

Bourke, D., Stanley, D., O'Rourke, E., Thompson, R., Carnus, T., Dauber, J., Emmerson, M., Whelan, P., Hecq, F., Flynn, E., Dolan, L. and Stout, J. (2014) Response of farmland biodiversity to the introduction of bioenergy crops: effects of local factors and surrounding landscape context. *GCB Bioenergy* **6**: 275-289. (Col., Dipt., Hym.)

Bourke, K. (1935) Phenological Report for 1934. *Ir. Nat. J.* **5**: 210-211. (Hym., Lep.)

Bouskell, F. (1903) Three weeks in south Kerry. June, 1902. General account and Botany. *Ir. Nat.* **12**: 57-59. (Col., Lep.)

—— (1904) Three weeks in the wilds of South Kerry, with notes on the insects and plants. *Transactions of the Leicester Literary and Philosophical Society* **8**: 49-60. (Col., Dipt., Hem., Hym., Lep.)

—— (1905) Stray notes from South Kerry in 1903. *Transactions of the Leicester Literary and Philosophical Society* **9**: 39-47.

Boyle, K. and Whelan, J. (1990) Changes in the diet of the badger *Meles meles* L. from autumn to winter. *Ir. Nat. J.* **23**: 199-202. (Col., Dipt., Lep.)

Bracken, J., Norton, M. and Phillips, H. (1991) A progress report on the rehabilitation of the Kilmastulla River, Co. Tipperary (1986-1988). Pp 115-134. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin. (Col., Dipt., Eph., Plec., Trich.)

Bradley, C. M., Kelly-Quinn, M., Tierney, D., Murray, D. A. and Ashe, P. J. (2003) Preliminary analysis of the longitudinal patterns occurring in macroinvertebrate assemblages in river catchments in Ireland. *Verh. Internat. Verein. Limnol*. **28**: 1576-1580.

Bradley, C. M., McGuinness, C., Baars, J.-R., Tierney, D., Trodd, W. and Kelly-Quinn, M. (2005) Species-level indicators of reference conditions in Irish rivers. *Verh. Internat. Verein. Limnol.* **29**: 453-456.

Brock, P. D. (2014) *A comprehensive guide to insects of Britain & Ireland*. Pisces Publications, Newbury.

Brooke, W. M. A. (1936) Report of the Dublin Naturalists' Field Club Jubilee Meeting, July, 1935. *Proceedings and Transactions of the British Entomological and Natural History Society* **1935-36**: 41-43. (Hym., Lep., Odon.)

Brown, J. J., Kersey, L. W. and MacDonald, R. (1951) Notes on the flora and fauna of the Maidens. *Ir. Nat. J.* **10**: 208-211.

Brunker, J. P. (1947) Phenological report for 1946. *Ir. Nat. J.* **9**: 9-15. (Hym., Lep.)

Brunker, J. P. (1948) Phenological report for 1947. *Ir. Nat. J.* **9**: 107-114. (Hym., Lep.)

Brunker, J. P. and Carrothers, E. N. (1932) Phenological report. *Ir. Nat. J.* **4**: 29-31. (Hym., Lep.)

Brunker, J. P. and Stelfox, A. W. (1929) Phenological report for 1928. *Ir. Nat. J.* **2**: 143-146.

—— (1930) Phenological report. *Ir. Nat. J.* **3**: 33-38.

—— (1931) Phenological report, 1930. *Ir. Nat. J.* **3**: 171-175. (Hym., Lep.)

Buckland, P. I. and Buckland, P. C. (2014) BugsCEP, an entomological database twenty-five years on. *Antenna* **38**: 21-28. (includes Irish fossil insects)

Burton, J. F. (2011) Entomologists I have known. *Entomologist's Rec. J. Var.* **123**: 170-181. (Cynthia Longfield, Captain R. A. (Rex) Jackson)

Byrne, C., Poole, R. and McGinnity, P. (2000) Food consumed by wild and stocked brown trout, *Salmo trutta* L., and salmon, *Salmo salar* L., in an Irish lake. *Verh. Internat. Verein. Limnol.* **27**: 185-188. (mentions Col., Dipt. (Chironomidae), Eph., Hem., Plec., Trich.)

Byrne, R. A. and Reynolds, J. D. (1982) Preliminary notes on a doline in Lough Gealain, the Burren, County Clare. *Ir. Nat. J.* **20**: 375-377. (Dipt., Lep., Trich.)

Cabot, D. (1999) *Ireland. A natural history.* The New Naturalist Library **No. 84**. HarperCollins, London.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2009) Comparison of the macroinvertebrate communities of seepage and lake-fed headwater streams. *Verh. Internat. Verein. Limnol.* **30**: 685-689.

—— (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162. (Col., Coll., Dipt., Eph., Hem., Odon., Plec., Trich.)

Carlisle, R. W. and Skillen, S. (1960) Parasites on Irish bats. *Ir. Nat. J.* **13**: 168-169.

Carlsson, J., Cross, T., McGinnity, P., Prodohl, P. and McDevitt, A. (2014) The use of genetics to infer the origins of the terrestrial and freshwater elements of the Irish fauna. Pp 8-27. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Col.: *Hydroporus glabriusculus*, Hym.: *Formica lugubris*, Trich.: *Plectrocnemia conspersa*)

Carpenter, G. H. (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895, Hymenoptera, Orthoptera and Neuroptera. *Ir. Nat.* **4**: 257-258.

—— (1896) The mingling of the North and South. *Ir. Nat.* **5**: 57-68. (Col., Hem., Lep., Odon.)

—— (1902) Neuroptera. Pp 215-216. *In* Bigger, F. J., Praeger, R. Ll. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson and Orr Limited, Belfast. (Neuroptera in the old sense)

—— (1910) Irish Field Club Union. Rosapenna Conference. Apterygota. *Ir. Nat.* **19**: 185. (Coll., Thysanura)

—— (1917) Useful studies for field naturalists. *Ir. Nat.* **26**: 66-70. (Col., Coll., Lep.)



Carroll, E., Sparks, T., Donnelly, A. and Cooney, T. (2009) Irish phenological observations from the early 20th century reveal a strong response to temperature. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 115-126. (Hym., Lep.)

Castella, E., Speight, M. C. D., Obrdlik, P., Schneider, E. and Lavery, T. (1994) A methodological approach to the use of terrestrial invertebrates for the assessment of alluvial wetlands. *Wetlands Ecology and Management* **3**: 17-36.

Chalmers-Hunt, J. M. (1978) An obituary and bibliography of Henry Charles Huggins, F.R.E.S. *Proceedings and Transactions of the British Entomological and Natural History Society.* **11**: 36-38, plate IV, 107-113. (collected in Ireland)

Chandler, P. (2009) Obituary. William James Parker 1920-2009. *British Journal of Entomology and Natural History* **22**: 115-116. (visited Ireland)

Chandler, P. J. (1973) Some Diptera and other insects associated with decaying elms (*Ulmus procera* Salisbury) at Bromley, Kent, with some additional observations on these and related species. *Entomologist's Gazette* **24**: 329-346.

—— (2014) Dr John Henry Wood and Colonel John William Yerbury - their different lives as dipterists. *Dipterists Digest* **21 Supplement**: 1-118. (includes important information on Ireland)

—— (2015) Corrections to: Chandler, P.J. 2015. Dr John Henry Wood and Colonel John William Yerbury - their different lives as Dipterists. *Dipterists Diges*t (Second Series) **21** (2014) **Supplement**, 1-118. *Dipterists Digest* **22**: 210-211.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London. (Col., Derm., Dicty., Dipt., Eph., Hem., Hym., Lep., Mecop., Megal., Neur., Odon., Orth., Plec., Trich.)

Clabby, K. J. and Bracken, J. J. (1976) The Glencullen River Survey. *Scientific Proceedings of the Royal Dublin Society Ser. B.* **3**: 355-370.

Claffey, T. (2017) *Tapestry of light. Ireland's bogs and wetlands as never seen before.* Artisan House Publishing, Letterfrack.

Classey, E. W. (1981) Obituary. W. H. T. Tams, A.L.S. *Entomologist's Gazette* **32**: 2

Cocchiglia, L., Purcell, P. J. and Kelly-Quinn, M. (2012) A critical review of the effects of motorway river-crossing construction on the aquatic environment. *Freshwater Reviews* **5**: 141-168. (invertebrates)

Cockerell, T. D. A. (1884) Migration of insects. *Entomologist's mon. Mag.* **21**: 159. (Dipt., Hym., Lep.)

Copeland, R. B., Dowley, L. J. and Moore, J. F. (1993) The vulnerability of the Irish potato industry to harmful organisms. Pp 95-106. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Col., Lep.)

Courtney, R., O'Neill, N., Harrington, T. and Breen, J. (2010) Macro-arthropod succession in grassland growing on bauxite residue. *Ecological Engineering* **36**: 1666-1671.

Cowan, C. F. (1986) John Francillon, F.L.S., a few facts. *Entomologist's Rec. J. Var.* **98**: 139-143. (William Kilburn)

Crory, A. and Anderson, R. (2013) Site Guide: Murlough Nature Reserve, Co. Down, Northern Ireland. *Atropos* **50**: 17-25. (Col., Dipt., Hym., Lep., Odon.)

Cruikshanks, R., Tierney, D., McGuinness, C. and Kelly-Quinn, M. (2005) Observations of recovery of the benthic macroinvertebrate community in an acid-impacted upland stream in Ireland. *Verh. Internat. Verein. Limnol.* **29**: 1529-1534.

Cummins, S. and O'Halloran, J. (2002) An assessment of the diet of nestling stonechats *Saxicola torquata* using compositional analysis. *Bird Study* **49**: 139-145. (Col., Hym., Lep.)

Curry, J. P. (1969) The qualitative and quantitative composition of the fauna of an old grassland site at Celbridge, Co. Kildare. *Soil Biology and Biochemistry* **1**: 219-227.

—— (1969) The decomposition of organic matter in soil. Part I. The role of the fauna in decaying grassland herbage. *Soil Biology and Biochemistry* **1**: 253-258.

—— (1969) The decomposition of organic matter in soil. Part II. The fauna of decaying grassland herbage. *Soil Biology and Biochemistry* **1**: 259-266.

—— (1970) The effects of different methods of new sward establishment and the effects of the herbicides paraquat and dalapon on the soil fauna. *Pedobiologia* **10**: 329-361.

—— (1971) Seasonal and vertical distribution of the arthropod fauna of an old grassland soil. *Scientific Proceedings of the Royal Dublin Society Ser. B* **3**: 49-71.

—— (1973) The arthropods associated with the decomposition of some common grass and weed species in the soil. *Soil Biology and Biochemistry* **5**: 645-657.

—— (1976) The arthropod fauna of some common grass and weed species of pasture. *Proceedings of the Royal Irish Academy* **76**B: 1-35.

—— (1976) The arthropod communities of some common grasses and weeds of pasture. *Proceedings of the Royal Irish Academy* **76**B: 641-665.

—— (1978) Relationships between microarthropod communities and soil and vegetational types. *In* The Proceedings of the Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society Ser. A* **6**: 131-141.

—— (1979) The arthropod fauna associated with cattle manure applied as slurry to grassland. *Proceedings of the Royal Irish Academy* **79**B: 15-28.

—— (1987) Soil invertebrates as monitors of the effects of slurry and pesticide application. Pp 123-136. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin. (Col., Coll., Dipt., Hem., Hym.)

Curry, J. P., Cotton, D. C. F., Bolger, T. and O'Brien, V. (1980) Effects of landspread animal manures on the fauna of grassland. Pp 314-325. *In* Grasser, J. K. R. (ed.) *Effluents from livestock.* Applied Science Publishers Ltd., Barking, England.

Curry, J. P. and Cunningham, C. (1978) A comparison of the epigeal arthropod fauna of old pasture and new leys of various floral types. *In* The Proceedings of the Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society Ser A*. **6**: 305-316.

Curry, J. P. and Ganley, T. (1977) The arthropods associated with the roots of some common grass and weed species of pasture. *Ecological Bulletin (Stockholm)* **25**: 330-339.

Curry, J. P., Kelly, M. and Bolger, T. (1985) Role of invertebrates in the decomposition of *Salix* litter in reclaimed cutover peat. Pp 393-397. *In* Fitter, A. H., Atkinson, D., Read, D. T. and Usher, M. B. (eds) *Ecological interactions in soil: plants, microbes and animals.* Blackwell, Oxford. (Col., Coll., Dipt.)

Curry, J. P. and Momen, F. M. (1988) The arthropod fauna of grassland on reclaimed cutaway peat in Central Ireland. *Pedobiologia* **32**: 99-109. (Col. (one named species), Coll. (named to species), Dipt. (one named species), Hem., Hym., Lep., Psoc.)

Curry, J. P. and O'Neill, N. (1978) Relationships betwen arthropod populations and sward composition in grassland. P. 15. *In* Abstracts of the First European Congress of Entomology, Reading, 19-22 September, 1978.

—— (1979) A comparative study of the arthropod communities of various swards using the D-vac suction sampling technique. *Proceedings of the Royal Irish Academy* **79**B: 247-258.

Curry, J. P. and Tuohy, C. F. (1978) Studies on the epigeal microarthropod fauna of grassland swards managed for silage production. *Journal of Applied Ecology* **15**: 727-741.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London. (Col., Dipt., Hem., Hym., Lep., Orth., Strep., Trich.)

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London. (Col., Dipt., Hem., Hym., Lep., Orth., Strep., Trich.)

—— (1837) *A guide to an arrangement of British insects: being a catalogue of all the named species hitherto discovered in Great Britain and Ireland.* Second edition. Printed for the author, London.

—— (1860) *Farm insects: being the natural history and economy of the insects injurious to the field crops of Great Britain and Ireland.* Blackie, Glasgow.

Curtis, T., Downes, S. and Ní Chathin, B. (2009) The ecological requirements of water-dependent habitats and species designated under the habitats directive. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 261-319. (Col., Dipt., Hem.)

Cuthbert, H. K. G. (1898) An entomologist at Ballybunion, Co. Kerry. *Ir. Nat.* **7**: 65-68. (Col., Hym., Lep.)

—— (1902) Some problems of Irish entomology. *Ir. Nat.* **11**: 106-108. (Col., Dipt., Hym.)

—— (1915) *Sirex gigas* and other insects in North Wexford. *Ir. Nat.* **24**: 207. (Dipt., Hym., Lep.)

Cuthbert, H. K. G. and Carpenter, G. H. (1894) (Insects from Maynooth). *Ir. Nat.* **3**: 160. (Col., Hem., Neur., Odon.)

—— (1895) Insects from Rosscarberry, Co. Cork. *Ir. Nat.* **4**: 303-305. (Col., Hem., Hym.)

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6. (Col., Derm., Hem.)

Cuthbertson, A. G. S. and Murchie, A. K. (2013) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6.

D'Arcy, G. (1992) Fauna observed on Clare Island, Co Mayo, June 14-18 1990. *Ir. Nat. J.* **24**: 33-34. (Dipt., Lep., Odon.)

D'Arcy-Burt, S. and Kell, G. V. (1988) A new emergence trap for grassland insects. *Ecological Entomology* **13**: 355-357.

Daly, P. J. and Ryan, M. F. (1981) Ultrastructural relationships of the lamellar or onion body in insect chemosensory neurones. *International Journal of Insect Morphology and Embryology* **10**: 83-87.

Dannreuther, T. (1947) Migration, records, 1946. *Entomologist* **80**: 107-112, 137-144.

—— (1948) Migration records, 1947. *Entomologist* **81**: 73-83, 110-117.

—— (1949) Migration records, 1948. *Entomologist* **82**: 73-78, 129-133.

—— (1950) Migration records, 1949. *Entomologist* **83**: 109-114, 102-106.

—— (1952) Migration records, 1950. *Entomologist* **84**: 85-90, 155-160.

Dauod, H. A., Bolger, T. and Bracken, J. J. (1985) Studies on the minnow *Phoxinus phoxinus* (L.) from an upland Irish reservoir system. *Irish Fisheries Investigations Series A* **No. 26**: 3-22. (Col., Dipt., Eph., Trich.)

—— (1985) Studies on the three-spined stickleback *Gasterosteus aculeatus* L. from an upland reservoir system. *Irish Fisheries Investigations Series A* **No. 27**: 3-16. (Col., Dipt., Eph., Trich.)

—— (1986) Age, growth and diet of the brown trout *Salmo trutta* L. in the Roundwood Reservoir system. *Irish Fisheries Investigations Series A* **No. 28**: 3-21. (Dipt., Eph., Trich.)

Davies, J. (2009) Who was…? Honorific names: some more mini-biographies. *British Simuliid Group Bulletin* **32**: 11-13. (*Simulium buckleyi* De Meillon named (implicit) for John Joseph Cronin Buckley (1904-1972))

—— (2010) Who was…? Honorific names: some more mini-biographies. *British Simuliid Group Bulletin* **33**: 14-20. (James Patrick McMahon (1904-1983) of Irish descent)

Davis, S. J., Mellander, P.-E., Kelly, A.-M., Matthaei, C. D., Piggott, J. J. and Kelly-Quinn, M. (2018) Multiple-stressor effects of sediment, phosphorus and nitrogen on stream macroinvertebrate communities. *Science of the Total Environment* **637**: 577-587. (Col., Dipt., Eph., Trich.)

de Brit, G. and McAree, D. (1977) Pests and diseases of Sitka Spruce. *Irish Forestry* **34**: 22-30.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92. (Col., Collem., Dipt., Hem., Hym., Lep., Neur., Psoc., Thysan.)

de Eyto, E. (2011) *Annex 1: macro-invertebrate survey of rivers in the Burrishoole and Owengrave catchments, 2009 & 2010.* Newport Research Facility. Annual Report **No. 55**: 62-84. Marine Institute. (several similar reports predate this one which summarises the previous work)



de Eyto, E., Doyle, B., King, N., Kilbane, T., Finlay, R., Sibigtroth, L., Graham, C., Poole, R., Ryder, E., Dillane, M. and Jennings, E. (2020) Characterisation of salmonid food webs in the rivers and lakes of an Irish peatland ecosystem. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 1-17. (Dipt., Eph., Plec., Trich.)

Demuth, R. P. (1985) Reminiscences of an elderly entomologist. *Entomologist's Rec. J. Var.* **97**: 13-19, 97-105.

Dietzsch, A. C., Stanley, D. A. and Stout, J. C. (2011) Relative abundance of an invasive alien plant affects native pollination processes. *Oecologia* **167**: 469-479. (Dipt., Hym., Lep.)

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 67-182. (Col., Coll., Dipt., Eph., Hem., Hym., Lep., Plec., Trich. No species mentioned)

Doherty, D. and McCarthy, T. K. (2000) The metazoan parasites, diets and general biology of arctic char, *Salvelinus alpinus* L., in two Irish lakes. *Verh. Internat. Verein. Limnol.* **27**: 1056-1061. (Dipt., Eph., Trich.)

Donisthorpe, H. (1923) (Review of Butler's *Biology of the British Hemiptera-Heteroptera*). *Entomologist's Rec. J. Var.* **25**: 103-104. (Hem., Hym)

Donohue, I., Donohue, L. A., Ní Ainín, B. and Irvine, K. (2009) Assessment of eutrophication pressure on lakes using littoral invertebrates. *Hydrobiologia* **633**: 105-122. (larvae collected in 514 samples taken from 190 Irish lakes between April 1996 and April 2002 but no individual breakdown given of the species for each lake)

Donohue, I., Jackson, A., Pusch, M. T. and Irvine, K. (2009) Nutrient enrichment homogenizes lake benthic assemblages at local and regional scale. *Journal of Applied Ecology* **90**: 3470-3477.

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159. (Col., Dipt., Eph., Hem., Odon., Plec., Trich.)

Drinan, T. J., Foster, G., Nelson, B. and O'Halloran, J. (2013) Macroinvertebrate assemblages of peatland lakes: Assessment of conservation value with respect to anthropogenic land-cover change. *Biological Conservation* **158**: 175-187. (Col., Hem., Odon.)

Drinan, T. J., O'Halloran, J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (Col., Dipt., Eph., Hem., Megal., Odon., Plec., Trich.) (the latitudes for three of the lakes are incorrect, 50 should read 53)

Dunne, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Col., Dipt., Hem., Lep., Thysan.)

Dunne, J. (1983) Gobiesocidae occurring in the coastal waters of Connemara. *Irish Fisheries Investigations Series A* **No. 23**: 32-36. (Insecta: larvae)

Eagles, T. R. (1951) Societies. *Entomologist* **84**: 192.

Egan, P. A., Stevenson, P. C., Tiedeken, E. J., Wright, G. A., Boylan, F. and Stout, J. C. (2016) Plant toxin levels in nectar vary spatially across native and introduced populations. *Journal of Ecology* **104**: 1106-1115. (Col., Hym.)

Eversham, B. C. (1994) using invertebrates to monitor land use change and site management. *British Journal of Entomology and Natural History* **7** (suppl. 1): 36-45. (Odon.: *Sympetrum danae*; Orth.: *Stethophyma grossum*)

Fahy, E. (1972) The life cycles of some invertebrates in an isothermic stream in Western Ireland. *Scientific Proceedings of the Royal Dublin Society Ser. A.* **4**: 331-342, plate 14.

—— (1972) The feeding behaviour of some common lotic insect species in two streams of differing detrital content. *Journal of Zoology, London* **167**: 337-350.

—— (1973) A high altitude lotic invertebrate community in Co. Wicklow. *Ir. Nat. J.* **17**: 343-345.

—— (1974) Fauna and flora of a thermal spring at Innfield (Enfield) Co. Meath. *Ir. Nat. J.* **18**: 9-12.

—— (1975) Quantitative aspects of the distribution of invertebrates in the benthos of a small stream system in Western Ireland. *Freshwater Biology* **5**: 167-182.

—— (1975) The biology of a thermal spring at Enfield, Co. Meath with some observations on other Irish thermal springs. *Proceedings of the Royal Irish Academy* **75**B: 111-123.

—— (1975) Salmonid stocks of the Cloonee catchment in Co. Kerry. *Fishery Leaflet Department of Agriculture, Fisheries Division Dublin* **No. 95**: 1-8. (Dipt., Eph., Plec.)

—— (1976) Variation in invertebrate community structure in three freshwater habitats in Ireland, as described by an index of species diversity. *Proceedings of the Royal Irish Academy* **76**B: 315-321.

—— (1983) Feeding ecology of feral rainbow trout *Salmo gairdneri* Richardson in Mulroy Bay, an atlantic sea lough. *Ir. Nat. J.* **21**: 103-107. (Col., Dipt., Hem., Hym.)

—— (1985) Feeding, growth and parasites of trout *Salmo trutta* L. from Mulroy Bay, an Irish sea lough. *Irish Fisheries Investigations Series A* **No. 25**: 3-12. (Col., Dipt., Eph., Hem., Hym.)

Fairley, J. S. (1964) The fieldmouse on some Irish Islands. *Ir. Nat. J.* **14**: 309-311.

—— (1967) An indication of the badger in north-east Ireland. *Ir. Nat. J.* **15**: 267-269.

—— (1967) Notes on the food of the fieldmouse in Irish woodlands. *Ir. Nat. J.* **15**: 300-302.

—— (1972) The fieldmouse in Ireland. *Ir. Nat. J.* **17**: 152-159.

—— (1992) *Irish wild mammals: a guide to the literature.* Second edition. Privately printed, Galway.

Fairley, J. S. and Clark, F. L. (1972) Notes on Pipistrelle bats *Pipistrellus pipistrellus* Schreber from a colony in Co. Galway. *Ir. Nat. J.* **17**: 190-193.

Faris, R. C. (1956) Insects in a Kerry heatwave. *Ir. Nat. J.* **12**: 65-68.

Farran, G. P., Stelfox, A. W., Johnson, W. F., Halbert, J. N. and Tattersall, W. M. (1911-1915) Addenda and Corrigenda to Section 2. *Proceedings of the Royal Irish Academy. Section C: Archaeology, Celtic Studies, History, Linguistics, Literature* **31**: vii-xi. (Clare Island Survey: Col., Hym.)

Farrell, N. (1895) (Insects from Glenasmole). *Ir. Nat.* **4**: 222. (Col., Dipt., Hem.)

Faulkner, J. (2007) County Armagh Wildlife Society - Hon. Secretary's report to members for 2006. *Ir. Nat. J.* **28**: 430-431. (Hym. and Lep. mentioned but no species)

Faulkner, J. *et al*. (1986) Obituary. Henry Heal (1920-1986). *Ir. Nat. J.* **22**: 125-132.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9. (Col., Dipt., Eph., Hem., Megal., Odon., Plec., Trich.)

Feeley, H. B., Davis, S., Bruen, M., Blacklocke, S. and Kelly-Quinn, M. (2012) The impact of a catastrophic storm event on benthic macroinvertebrate communities in upland headwater streams and potential implications for ecological diversity and assessment of ecological status. *Journal of Limnology* **71**: 299-308. (Col., Dipt., Eph., Plec., Trich.)

Feeley, H. B. and Kelly-Quinn, M. (2012) An evaluation of local and regional diversity of benthic macroinvertebrate communities in two small regions of Ireland and their potential as localised refugia for certain taxonomic groups. *Biology and Environment: Proceedings of the Royal Irish Academy* **112**B: 43-54. (Col., Dipt., Eph., Plec., Trich.)

—— (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218. (Col., Dipt., Eph., Hem., Plec., Trich.)

Feeley, H. B., Woods, M., Baars, J.-R. and Kelly-Quinn, M. (2011) Refining a kick sampling strategy for the bioassessment of benthic macroinvertebrates in headwater streams. *Hydrobiologia*, Online First™, 2 November 2011.

Fenwick, S. (ed.) (2002) *Archives of the Royal Entomological Society*. Ashgate Publishing, London. 198pp. (A. H. Haliday)

Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) (2009) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Fisher, K., Nelson, B. and Baars, J.-R. (2015) Motorway attenuation ponds make a significant contribution to the landscape biodiversity of mobile aquatic insect groups. Conference: ENVIRON (2015) The 25th environmental researchers' colloquium. At: Sligo IT, Sligo, Ireland. (Col., Hem., Odon.)

Fisher, N. (1933) Phenological report for 1932. *Ir. Nat. J.* **4**: 159-162. (Hym., Lep., Odon.)

Fitzpatrick, Ú. (2020) The All-Ireland Pollinator Plan 2015-2020. *Biodiversity Ireland* **Issue 20**: 6.

Fitzpatrick, U., Regan, E. and Lysaght, L. (2011) Ireland's biodiversity in 2010. *Biodiversity Ireland* **Issue 7**: 4-5. (Col., Hym., Lep., Odon.)

Flavin, D. A., Biggane, S. S., Shiel, C. B., Smiddy, P. and Fairley, J. S. (2001) Analysis of the diet of Daubenton's bat *Myotis daubentonii* in Ireland. *Acta Theriologica* **46**: 43-52. (Dipt., Trich.)

Fletcher, D. S. and Bradley, J. D. (1981) Obituaries. W. H. T. Tams 1891-1980. *Proceedings and Transactions of the British Entomological and Natural History Society* **14**: 34-40, plate. (collected in Ireland)

Foot, A. W. (1870) Brief notes on Entomology. *Proceedings of the Natural History Society of Dublin* **6**: 62-66. (Col., Dipt., Hem., Hym., Lep.)

Foster, G. (2002) Obituary. John William Alexander Francis Balfour-Browne 1907-2001. *Entomologist's mon. Mag.* **138**: 165-170. (born in Larne)

Foster, G. N. (2007) Browsing section - Alexander Henry Haliday - *if we do not try to do more than we do we shall do less than we do*. *Latissimus* **22**: 27.

—— (2012) A H Haliday 1806-1870. *Latissimus* **32**: 5.

Foster, W. (2006) Stamps of approval. *Antenna* **30**: 120-121. (illustrations of Irish stamps depicting Lepidoptera)

French, R. A. (1953) Insect migration records, 1952. *Entomologist* **86**: 157-164.

—— (1954) Insect migration records 1953. *Entomologist* **87**: 57-63.

—— (1955) Migration records, 1954. *Entomologist* **88**: 123-130.

—— (1956) Migration records, 1955. *Entomologist* **89**: 139-145, 174-180.

—— (1957) Migration records 1956. *Entomologist* **90**: 227-238.

—— (1958) Migration records 1957. *Entomologist* **91**: 101-109.

—— (1959) Migration records 1958. *Entomologist* **92**: 164-176.

—— (1962) Migration records, 1959. *Entomologist* **95**: 169-177.

—— (1962) Migration records, 1960. *Entomologist* **95**: 204-211.

—— (1963) Migration records, 1961. *Entomologist* **96**: 32-38.

—— (1964) Migration records, 1962. *Entomologist* **97**: 121-128.

—— (1965) Migration records, 1963. *Entomologist* **98**: 73-77.

—— (1966) Migration records, 1964. *Entomologist* **99**: 233-240.

—— (1968) Migration records, 1965. *Entomologist* **101**: 156-161.

—— (1971) Migration records, 1966 and 1967. *Entomologist* **104**: 204-218.

—— (1973) Migration records, 1968. *Entomologist* **106**: 256-263.

Fritch, R. A., Sheridan, S., Finn, J. A., McCormack, S. and Ó hUallacháin, D. (2017) Enhancing the diversity of breeding invertebrates within field margins of intensively managed grassland: Effects of alternative management practices. *Ecology and Evolution* **7**: 9763-9774. (Col., Dipt., Hem., Hym.)

Frost, W. E. (1939) River Liffey Survey - II. The food consumed by the Brown Trout (*Salmo trutta* Linn.) in acid and alkaline waters. *Proceedings of the Royal Irish Academy* **45**B: 139-214. (Col., Dipt., Eph., Hem., Hym., Lep., Plec., Trich.)

Gargan, P. G. and O'Grady, M. F. (1992) Feeding relationships of trout *Salmo trutta* L., perch *Perca fluviatilis* L. and roach *Rutilus rutilus* (L.) in Lough Sheelin, Ireland. *Irish Fisheries Investigations Series A* **No. 35**: 3-22. (Dipt., Hem., Trich.)

Gibson, C. E., Foy, R. H. and Fitzsimmons, A. G. (1980) A preliminary limnological reconnaissance of the Lough Erne system, Ireland. *Internationale Revue Gesamten Hydrobiologie* **65**: 49-84.

Gilbert, P. (2007) *A source book for biographical literature on entomologists*. Backhuys Publishers, Leiden.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin. (Review: Col., Dipt., Eph., Hem., Hym., Megal., Odon., Plec., Trich.)

Giller, P. S., Sangradup, N. and Twomey, H. (1991) Catastrophic flooding and macroinvertebrate community structure. *Verh. Internat. Verein. Limnol.* **24**: 1724-1729.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment. Proceedings of the Royal Irish Academy* **93**B: 115-126. (Col., Dipt., Eph., Hem., Plec., Trich.)

Glavin, H. (1946) Harmonious insects. *Ir. Nat. J.* **8**: 338. (Dipt., Hem., Hym.)

Gleeson, M. (1899) Phenological notes from Co. Tipperary. *Ir. Nat.* **8**: 161-162. (Eph., Lep.)

Good, J. A. (1986) Insect visitors to *Iris pseudacorus* (Iridaceae) in Ireland. *Ir. Nat. J.* **22**: 71-74. (Dipt., Hym., Lep.)

—— (1986) Invertebrates of Irish midlands raised bogs: part IV. Notes on terrestrial insects. *Bulletin of the Irish Biogeographical Society* **9**: 2-9. (Col., Dipt., Hem., Hym., Orth.)

—— (1998) The potential role of ecological corridors for habitat conservation in Ireland: a review. *Irish Wildlife Manuals* **No. 2**. 72pp. (Col., Dip., Lep.)

—— (2001) Farms as biogeographical units: 1. Habitats and faunal changes as influenced by farmer decision-making on a mixed farm in south Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 220-247. (Lep., Odon.)

—— (2009) Local and regional studies of Cryptobiota: esoteric stamp collecting or essential ecology? *Bulletin of the Irish Biogeographical Society* **33**: 115-169. (Col., Dipt., Hym., Lep., Odon.)

Good, J. A. and Boxshall, M. (2014) Reassessment of early nineteenth century Tardy records in the Dublin University Zoological Museum: Part 2 (Coleoptera, Lepidoptera, Neuroptera and biographical note). *Bulletin of the Irish Biogeographical Society* **38**: 263-271.

Good, J. A. and Speight, M. C. D. (1991) Sites of international and national importance for invertebrate fauna - a definition proposed for use in site surveys. *Bulletin of the Irish Biogeographical Society* **14**: 48-53. (Col., Dipt.)

Graham, M. W. R. de V. (1950) Eggs of unknown insect deposited on the body of sphecoid wasps. *Entomologist's mon. Mag.* **86**: 348-351.

Grainger, J. P. and Fairley, J. S. (1978) Studies on the biology of the pygmy shrew *Sorex minutus* in the west of Ireland. *Journal of Zoology, London* **186**: 109-141. (Col., Dipt., Hem., Siphon., Thysan.)

Gray, N. F. and Delaney, E. (2010) Measuring community response of bentic macroinvertebrates in an erosional river impacted by acid mine drainage by use of a simple model. *Ecological Indicators* **10**: 668-675. (Col., Dipt., Eph., Lep., Trich.)

Greer, T. (1936) Entomological notes from East Tyrone. *Ir. Nat. J.* **6**: 50. (Eph., Lep., Neur.)

Gresson, R. A. R. (1954) The food of badgers. *Ir. Nat. J.* **11**: 203-205.

Grimes, M. (1936) Phenological report for 1935. *Ir. Nat. J.* **6**: 52, 77-78. (Hym., Lep.)

—— (1937) Phenological report for 1936. *Ir. Nat. J.* **6**: 202-204. (Hym., Lep.)

—— (1938) Phenological report for 1937. *Ir. Nat. J.* **7**: 24-26. (Hym., Lep.)

—— (1939) Phenological report for 1938. *Ir. Nat. J.* **7**: 152-153. (Hym., Lep.)

—— (1940) Phenological report for 1939. *Ir. Nat. J.* **7**: 265-266. (Hym., Lep.)

H. C. H. (1963) Obituary: Mrs. Ethel Ada Huggins. *Entomologist's Rec. J. Var.* **75**: 228.

H. C. H. (1972) Obituary. Edward Stuart Augustus Baynes, O.B.E., F.R.E.S. *Proceedings and Transactions of the British Entomological and Natural History Society* **5**: 80.

Haggett, G. (2009) Eric Classey. *Entomologist's Rec. J. Var.* **121**: 34-36. (Irish collecting)

Haggett, G. M. (1972) Obituary. Archibald John Wightman 1884-1971. *Proceedings and Transactions of the British Entomological and Natural History Society* **5**: 75-80, plate. (collected in Ireland)

Halbert, J. N. (1895) Insects collected in the Fermoy and Blackwater District. *Ir. Nat.* **4**: 45-49. (Col., Hem., Odon., Orth., Plec.)

—— (1895) Insects collected at the Seagull Bog, Tullamore, for the Royal Irish Academy Flora and Fauna Committee, May, 1895. *Ir. Nat.* **4**: 172-174. (Col., Hem., Lep.)

—— (1908) Neuroptera. Pp 170-171. *In* Cole, G. A. J. and Praeger, R. Ll. (eds) *Handbook to the city of Dublin and the surrounding district. Prepared for the meeting of the British Association, September, 1908.* University Press, Dublin. (Neuroptera old sense)

—— (1913) The Haliday collection. *National Museum of Science and Art, Dublin, Bulletin* **3**: 27-28.

—— (1915) Some recent records of Irish insects. *Ir. Nat.* **24**: 157-165. (Col., Dipt., Hym., Lep., Odon.)

—— (1922) *Magdalis carbonaria* and other insects at Powerscourt. *Ir. Nat.* **31**: 8-10. (Col., Dipt., Hem., Hym.)

Haliday, A. H. (1841) Notes on the Staphylinidae. *Entomologist* **1**: 186-188. (Col., Hem., Hym.)

—— (1855) (Col., Dipt., Hem.). *The Natural History Review (Proceedings of Societies)* **2**: 117-124.

—— (1855) Descriptions of insects figured, and references to plates illustrating the notes on Kerry Insects. *The Natural History Review (Proceedings of Societies)* **2**: 59-64. (Col., Dipt., Hem., Trich.)

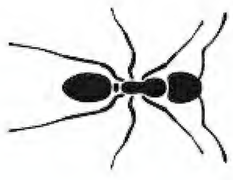
—— (1857) Entomological notes. *The Natural History Review (Proceedings of Societies)* **4**: 31-36. (Col., Dipt., Hem., Hym., Neur., Thysan.)

Hancock, G. (2008) People and historical notes. James Joseph Francis Xavier King (1855-1933). *Cranefly Newsletter* **No. 17**: 6-7. *In Bulletin of the Dipterists Forum* **No. 66**. (Ireland mentioned)

Hannigan, E., Feeley, H. B. and Kelly-Quinn, M. (2016) Should rare or distinctive river types be given special consideration under the Water Framework Directive? A synthesis of available information. *Biology and Environment: Proceedings of the Royal Irish Academy* **116**B: 167-177.

Hannigan, E. and Kelly-Quinn, M. (2012) Composition and structure of macroinvertebrate communities in contrasting open-water habitats in Irish peatlands: implications for biodiversity conservation. *Hydrobiologia* **692**: 19-28.

—— (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263. (Col., Dipt., Eph., Hem., Lep., Odon., Trich.)



Hannigan, E., Mangan, R. and Kelly-Quinn, M. (2011) Evaluation of the success of mountain blanket bog pool restoration in terms of aquatic macroinvertebrates. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 95-105. (Col., Dipt., Eph., Hem., Trich.)

Harding, P. T. (1981) A handlist of the papers of Denis R. Pack Beresford at the library of the Royal Irish Academy. *Ir. Nat. J.* **20**: 235-240. (Dipt., Hym., Lep., Orth., Siphon., Thysanura)

Harrington, R., Carroll, P., Carty, A. H., Keohane, J. and Ryder, C. (2007) Integrated Constructed Wetlands: concept, design, site evaluation and performance. *International Journal of Water* **3**: 243-256. (Col., Dipt., Eph., Hem., Odon.)

Harris, J. R. (1956) *An angler's entomology.* Second edition. The New Naturalist. Collins, London and Glasgow.

Harrison, S. (2014) Never mind the gap: climate, rather than insularity, may limit Ireland's species richness. Pp 107-123. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Lep., Odon.)

Harry, O. G. (1984) The hon. Mrs Ward (1827-1869) artist, naturalist, astronomer and Ireland's first lady of the microscope. *Ir. Nat. J.* **21**: 193-200.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202. (Col., Coll., Dipt., Eph., Plec., Trich.)

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215. (Col., Coll., Dipt., Eph., Plec., Trich.)

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252. (Col., Coll., Dipt., Eph., Hem., Plec., Trich.)

Healy, B. (1975) Fauna of the salt-marsh, North Bull Island, Dublin. *Proceedings of the Royal Irish Academy* **75**B: 225-244.

—— (1977) Saltmarsh fauna. Pp 93-99. *In North Bull Island Dublin Bay - A Modern Coastal Natural History*. Royal Dublin Society, Dublin.

—— (1997) Long-term changes in a brackish lagoon, Lady's Island Lake, South-East Ireland. *Biology and Environment. Proceedings of the Royal Irish Academy* **97**B: 33-51. (Col., Dipt., Hem., Odon., Trich.)

Healy, B., Bates, R. and McGrath, D. (1982) Marine fauna of County Wexford - 5. Lady's Island Lake. *Ir. Nat. J.* **20**: 510-526. (Col., Dipt., Hem., Odon., Trich.)

Healy, B. and McGrath, D. (1998) Marine fauna of County Wexford, Ireland: the fauna of rocky shores and sandy beaches. *Irish Fisheries Investigations New Series* **2**: 1-71. (Col., Collem., Dipt., Thysanura)

Healy, B. and Oliver, G. A. (1998) Irish coastal lagoons: summary of a survey. *Bulletin of the Irish Biogeographical Society* **21**: 116-150. (Col., Hem.)

Helden, A. J., Anderson, A., Finn, J. and Purvis, G. (2015) The response of sward-dwelling arthropod communities to reduced grassland management intensity in pastures. *Irish Journal of Agricultural and Food Research* **54**: 107-120. (Col., Hem., Hym.)

Helden, A. J., Anderson, A., Sheridan, H. and Purvis, G. (2010) The role of grassland sward islets in the distribution of arthropods in cattle pastures. *Insect Conservation and Diversity* **3**: 291-301.

Heslop-Harrison, J. W. (1947) The Pleistocene races of certain British insects and distributional over lapping. *Entomologist's Rec. J. Var.* **59**: 141-145.

Hladyz, S., Tiegs, S. D., Gessner, M. O., Giller, P. S., Rîşnoveanu, G., Preda, E., Nistorescu, M., Schindler, M. and Woodward, G. (2010) Leaf-litter breakdown in pasture and deciduous woodland streams: a comparison among three European regions. *Freshwater Biology* **55**: 1916-1929. (macroinvertebrates)

Hogan, A. R. and Haliday, A. H. (1855) Notes on various insects captured or observed in the neighbourhood of Dingle, Co. Kerry, in July, 1854. *The Natural History Review (Proceedings of Societies)* **2**: 50-55. (Col., Dipt., Lep.)

Hoy, S., Attewell, P., Kvamme, T. and Hughes, J. (2017) Obituary. 'The Great' Cedric Collingwood: an appreciation. *BWARS Newsletter* **Spring 2017**: 25-32.

Huggins, H. C. (1953) The Dillon enigma. *Entomologist's Gazette* **4**: 305-307.

—— (1957) Ireland, then and now. *Entomologist's Rec. J. Var.* **69**: 267-269.

Humphries, C. F. and Kennedy, P. G. (1957) Zoology. Pp 62-83. *In* Meenan, J. and Webb, G. A. (eds) *A view of Ireland. Twelve essays on different aspects of Irish life and the Irish countryside.* British Association for the Advancement of Science.

InvertebrateIreland Online (2006) National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/index.html>

Irvine, K., Free, G., de Eyto, E., White, J., Allott, N. and Mills, P. (2001) The EC water framework directive and monitoring lakes in the Republic of Ireland. *Freshwater Forum* **16**: 48-64. (Eph., Hem., Plec.)

Irwin, A. G. (1975) Insects from a deserted bat colony in Co. Down, including a beetle new to Ireland. *Ir. Nat. J.* **18**: 226-227.

Jameson, H. L. (1896) On the exploration of the caves of Enniskillen and Mitchelstown for the R.I.A. Flora and Fauna Committee. *Ir. Nat.* **5**: 93-100. (Col., Coll., Dipt., Hem.)

Janson, O. E. and Bonaparte-Wyse, L. H. (1923) A fortnight's entomology in Co. Waterford. *Ir. Nat.* **32**: 9-17. (Col., Hem., Lep.)

Jarvis, F. V. L. (1950) The meteorological approach to entomology. *Entomologist's Gazette* **1**: 201-216.

Jess, S., Kearns, C. and Matthews, D. I. (2007) A survey of annual pesticide usage during the control of sheep ectoparasites in Northern Ireland, 2005. *Journal of Agricultural Science* **145**: 517-528.

Johnson, M., O'Gorman, K., Gallagher, M., Clenaghan, C., Giller, P. S. and O'Halloran, J. (2001) The identification and amelioration of the impacts of clearfelling operations on lotic macroinvertebrates and salmonids in Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1565-1570. (Dipt., Eph., Plec.)

Johnson, M. J., Giller, P. S., O'Halloran, J., O'Gorman, K. and Gallagher, M. B. (2005) A novel approach to assess the impact of land use activity on chemical and biological parameters in river catchments. *Freshwater Biology* **50**: 1273-1289. (Eph., Plec., Trich.)

Johnson, W. F. (1895) Entomological notes from the North of Ireland. *Entomologist's mon. Mag.* **31**: 33-35. (Col., Hem., Hym., Lep.)

—— (1895) Report on insects collected at Coolmore, Co. Donegal, for the Royal Irish Academy Flora and Fauna Committee, July, 1894. *Ir. Nat.* **4**: 95-99, 161-162. (Col., Hem., Hym., Lep.)

—— (1896) Entomological notes from the North of Ireland in 1895. *Entomologist's mon. Mag.* **32**: 156-158. (Col., Hem., Hym., Lep., Trich.)

—— (1896) Entomological notes from Poyntzpass. *Ir. Nat.* **5**: 190. (Col., Hym., Lep.)

—— (1896) Entomological notes from N.E. Ireland. *Ir. Nat.* **5**: 273-274. (Col., Hym., Lep.)

—— (1897) Entomological notes. *Ir. Nat.* **6**: 56-57. (Col., Hem., Hym., Lep.)

—— (1897) Entomological notes from Poyntzpass. *Ir. Nat.* **6**: 171-172, 303-304. (Col., Hym., Lep.)

—— (1898) Entomological notes from Poyntzpass, etc. *Ir. Nat.* **7**: 168-169. (Col., Hym., Lep.)

—— (1899) Entomological notes from Poyntzpass, etc. *Ir. Nat.* **8**: 25-26. (Col., Hym., Lep.)

—— (1899) Entomological notes from Ulster. *Ir. Nat.***8**: 257-260. (Col., Hym., Lep.)

—— (1900) Entomological notes from Ulster. *Ir. Nat.* **9**: 183-184, 290-292. (Col., Hym., Lep.)

—— (1902) Insects collected in Co. Sligo. *Ir. Nat.* **11**: 163-167. (Col., Hem., Hym., Lep., Trich.)

—— (1902) Arthropoda. Insecta. P. 195. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast. (short introduction)

—— (1903) Entomological notes on the Season. *Ir. Nat.* **12**: 109-110. (Col., Hym., Lep.)

—— (1905) Insects at Rosses' Point, Co. Sligo. *Ir. Nat.* **14**: 252-255.

—— (1909) Entomological notes during 1908. *Ir. Nat.* **18**: 69-72. (Col., Hem., Lep.)

—— (1911) Entomological notes. *Ir. Nat.* **20**: 219. (Col., Hem., Lep.)

—— (1912) Entomological notes from Ulster. *Ir. Nat.* **21**: 131-133. (Col., Hem., Hym., Lep.)

—— (1913) Insects at Coolmore, Co. Donegal. *Ir. Nat.***22**: 42. (Col., Lep.)

—— (1916) Entomological notes from South Donegal. *Ir. Nat.* **25**: 172.

—— (1919) Entomological notes from Donegal, Fermanagh and Armagh, *Ir. Nat.* **28**: 20-23. (Col., Lep., Odon.)

—— (1919) Entomological notes for 1919. *Ir. Nat.* **28**: 127-129. (Col., Dipt., Lep.)

—— (1922) Insects at Carlingford, Co. Louth. *Ir. Nat.* **31**: 13-17. (Col., Dipt., Hym., Lep.)

—— (1923) Entomological notes from Rostrevor. *Ir. Nat.* **32**: 35-38. (Col., Dipt., Hym., Lep.)

Johnson, W. F., Halbert, J. N. and Carpenter, G. H. (1894) Insects collected by the Royal Irish Academy Flora and Fauna Committee. *Ir. Nat.* **3**: 83-89, 103-105, 122-124, 153-155, 170-172, 198-199. (Col., Hem., Hym., Lep.)

Johnston, P. and Reilly, E. (2007) Plant and insect remains. Pp 55-62 (with Appendix, 90-92). *In* O'Sullivan, A., Sands, R. and Kelly, E. P. (eds) *Coolure Demesne crannog: an introduction to its archaeology and landscapes*. Wordwell Ltd., Bray.

Jones, R. A. (1995) House style 5: county names in records. *British Journal of Entomology and Natural History* **8**: 27-32.

Jurca, T., Donohue, L., Cvijanović, D., Radulović, S. and Irvine, K. (2012) Importance of the shoreline diversity features for littoral macroinvertebrate assemblages. *Fundamental and Applied Limnology/Archiv für Hydrobiologie* **180**: 175-184. (no species)

Kane, W. F. de V. (1883) Visitors to ragwort bloom. *Entomologist* **16**: 167. (Col., Dipt., Lep.)

—— (1891) Black-Headed Gull feeding on insects. *Entomologist* **24**: 148. (Lep., Neur., Plec.)

—— (1893) Irish Entomology. *Ir. Nat.* **2**: 32-34.

Kavanagh, J. A. and Harrison, S. S. C. (2014) The contribution of a drainage network to the spatial and temporal patterns of macroinvertebrate diversity across an agricultural headwater catchment. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 181-197. (Col., Dipt., Trich.)

Keane, M., McCarthy, R. and Hogan, J. (1989) Forest health surveys in Ireland: 1987 and 1988 results. *Irish Forestry* **46**: 59-62. (Hem.: *Elatobium abietinum* and Hym.: *Neodiprion sertifer*)

Kelly, D. W., Dick, J. T. A., Montgomery, W. I. and Macneil, C. (2003) Differences in composition of macroinvertebrate communities with invasive and native *Gammarus* spp. (Crustacea: Amphipoda). *Freshwater Biology* **48**: 306-315.

Kelly, K. S. and Costello, M. J. (1995) Marine-related papers published in *The Irish Naturalists' Journal*, 1925-1994. *Ir. Nat. J.* **25**: 89-98.

Kelly, M. T. and Curry, J. P. (1985) Studies on the arthropod fauna of a winter wheat crop and its response to the pesticide methiocarb. *Pedobiologia* **28**: 413-421. (Col. (named to species), Collem. (named to species), Diplura, Dipt., Thysan.)

Kelly, T. C. and Walton, G. A. (1977) The Auk population crash of 1968-69 on Inishtearaght - a review. *Irish Birds* **1**: 16-36.

Kelly-Quinn, M. (1991) The diel feeding pattern of brown trout (*Salmo trutta* L.) in acid streams during the summer and autumn months. Pp 47-57. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin. (Dipt., Eph., Plec., Trich.)

Kelly-Quinn, M. and Bracken, J. J. (1988) A comparative study of two tributaries of the River Dodder - The Owendoher and the Dundrum stream. *Irish Fisheries Investigations Series A* **No. 30**: 3-16. (Col., Dipt., Eph., Trich.)

Kelly-Quinn, M., Bradley, C., Harrington, T. J., Rippey, B. and White, B. (2019) RIVTYPE, a database of hydrochemistry, macroinvertebrate, macrophyte and phytobenthos communities from river sites in Ireland generated for typological classification. *Biology and Environment: Proceedings of the Royal Irish Academy* **119**B: 29-36. (macroinvertebrates, Plec.)

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2003) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 187-196. (Col., Dipt., Eph., Hem., Lep., Plec., Trich.)



Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82. (Col., Coll., Dipt., Eph., Hem., Hym., Lep., Megal., Neur., Odon., Plec., Trich.)

Kelly-Quinn, M., Murray, D., Bradley, C. and Tierney, D. (2002) The biological integrity of aquatic systems a perspective on invertebrates. *In* Convery, F. and Feehan, J. (eds) *Achievement and Challenge Rio +10 and Ireland*. The Environmental Institute, Dublin.

Kennedy, M. and Fitzmaurice, P. (1978) The early life of Brown Trout (*Salmo trutta* L.). *Irish Fisheries Investigations Series A* **No. 4**.

Kennedy, T. F. (1993) Control of seedling pests in sugar beet using pellet-incorporated insecticides. IGAPA Research Meeting abstract. *Irish Journal of Agricultural Research* **32**: 116-117. (Coll., Hem.)

Kew, H. W. (1910) A holiday in South-Western Ireland. Notes on some False-Scorpions and other animals observed in the Counties of Kerry and Cork. *Ir. Nat.* **19**: 64-73. (Col., Coll., Odon.)

Kibichii, S., Baars, J.-R. and Kelly-Quinn, M. (2009) Optimising sample volume and replicates using the Bou-Rouch method for the rapid assessment of hyporheic fauna. *Marine and Freshwater Research* **60**: 83-96.

Kibichii, S., Feeley, H. B., Baars, J.-R. and Kelly-Quinn, M. (2015) The influence of water quality on hyporheic invertebrate communities in agricultural catchments. *Marine and Freshwater Research* **66**: 805-814.
<http://dx.doi.org/10.1071/MF14214> (Dipt., Eph., Plec., Trich.)

King, J. J. and O'Grady, M. F. (1994) Aspects of the limnology of Lough Gur, Co. Limerick. *Irish Fisheries Investigations Series A* **No. 37**: 1-11. (Dipt., Hem., Trich.: none to species)

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235. (Col., Coll., Dipt., Eph., Plec., Trich.)

Langley, R. and Fairley, J. S. (1982) Seasonal variations in infestations of parasites in a wood mouse *Apodemus sylvaticus* population in the west of Ireland. *Journal of Zoology, London* **198**: 249-261. (Col., Siphon.)

Lansbury, I. (1965) Notes on the Hemiptera, Coleoptera, Diptera and other invertebrates of the Burren, Co. Clare and Inishmore, Aran Islands. *Proceedings of the Royal Irish Academy* **64**B: 89-116.

Lavery, T. A. (1991) Report on migrant insects in Ireland for 1990. *Ir. Nat. J.* **23**: 458-461. (Lep., Odon.)

Leech, M. J. (1959) Collecting experiences in the Burren, Co. Clare, in August 1955. *Proceedings of the Lancashire and Cheshire Entomological Society* **1955-58**: 31-34.

Lisney, A. A. (1951) It happened at.... *Entomologist's Gazette* **2**: 105-106.

Little, R., Bowman, J. J., McGarrigle, M. L., Free, G., Donnelly, K., Tierney, D., Caroni, R. and Irvine, K. (2007) Implementation of the Water Framework Directive: investigations for establishing a lake typology using littoral macroinvertebrates in the Republic of Ireland. *Verh. Internat. Verein. Limnol.* **29**: 2192-2196.

Long, M. (2004) Report of Galway Naturalists' Field Club (Club Nádúraithe na Gaillimhe) 2002-2003. *Ir. Nat. J.* **27**: 366-368. (Col., Lep.)

Lucey, J. (1987) Biological monitoring of rivers and streams using macroinvertebrates. Pp 63-75. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution*. Royal Irish Academy, Dublin.

—— (1991) Invertebrates as pollution indicators in Irish rivers. Pp 135-150. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin. (Col., Dipt., Eph., Plec., Trich.)

—— (2015) Eileen Barnes (1876-1956): the contribution of a gifted artist, scientific illustrator and model-maker to Irish natural history. *Ir. Nat. J.* **34**: 113-124.

Lucy, F., Costello, M. J. and Giller, P. S. (1990) Diet of *Dinocras cephalotes* and *Perla bipunctata* (Plecoptera, Perlidae) in a south-west Irish stream. *Aquatic Insects* **12**: 199-207. (Dipt., Eph., Plec., Trich.)

Lynch, Á. B. and McCann, Y. (2007) The diet of the pine marten (*Martes martes*) in Killarney National Park. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 67-76. (Col., Hym., Lep. None identified to species)

MacDonald, R. and McMillan, N. F. (1951) The Natural History of Lough Foyle, North Ireland. *Proceedings of the Royal Irish Academy* **54**B: 67-96.

Macfadyen, A. (1978) The role of the fauna in decomposition processes in grasslands. *In* The Proceedings of the Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society Ser A* **6**: 197-206.

Maki, A. M. (2010) Aquatic macroinvertebrate biodiversity of an Irish constructed wetland system, two years after construction. *Bulletin of the Irish Biogeographical Society* **34**: 128-138. (Col., Dipt., Hem., Lep.)

Mantell, A. and Anderson, R. (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland. (Col., Dipt., Hem., Hym., Odon., Orth.)

Martay, B. and Pearce-Higgins, J. W. (2018) Using data from schools to model variation in soil invertebrates across the UK: The importance of weather, climate, season and habitat. *Pedobiologia* **67**: 1-9. (includes Northern Ireland)

Martin, J. S. (1972) Nature notes from Co. Wicklow. *Ir. Nat. J.* **17**: 246.

Martin, R., Oxbrough, A., Gittings, T., Kelly, T. C. and O'Halloran, J. (2010) New records and rare invertebrate specimens recorded during a decade of forest biodiversity research in Ireland. *Antenna* **34**: 11-118. (Col., Dipt.)

Mayhew, P. (2011) Meeting reports. Insect Parasitoid Special Interest Group. *Antenna* **35**: 44-45. (Annette Anderson: agricultural grassland arthropod diversity)

McAney, C. M. and Fairley, J. S. (1989) Analysis of the diet of the lesser horseshoe bat *Rhinolophus hipposideros* in the West of Ireland. *Journal of Zoology, London* **217**: 491-498. (Col., Dipt., Eph., Hem., Hym., Lep., Neur., Trich.)

McAree, D. T. and MacKenzie, R. F. (1993) Guarding against potential threats to Irish forests. Pp 83-94. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Col., Hym., Lep.)

McCarthy, D. T. (1972) The ecology of Brown Trout and juvenile Salmon in the River Owenea, County Donegal. *Irish Fisheries Investigations Series A* **No. 9**.

—— (1977) The effects of drainage on the Trimblestown River 1. Benthic invertebrates and flora. *Irish Fisheries Investigations Series A* **No. 16**.

McCarthy, T. K. (1986) Biogeographical aspects of Ireland's invertebrate fauna. Pp 67-81. *In* Sleeman, D. P., Devoy, R. J. and Woodman, P. C. (eds) *Proceedings of The Postglacial Colonization Conference*. *Occasional Publication of the Irish Biogeographical Society* **Number 1**.

McCarthy, T. K., Barbiero, R. P., King, J., Doherty, D., O'Connor, B. and Cullen, P. (2000) Water quality monitoring in some larger western Irish lakes. *Verh. Internat. Verein. Limnol.* **27**: 1816-1821. (Dipt.: *Corynocera ambigua*; Plec.: *Capnia atra*)

Mc Conigley, C., Lally, H., Little, D., O'Dea, P. and Kelly-Quinn, M. (2017) The influence of aquatic buffer zone vegetation on river macroinvertebrate communities. *Forest Ecology and Management* **400**: 621-630.

McCormack, S., Nolan, M. and Regan, E. (2006) Coleoptera, Araneae, and aquatic Hemiptera recorded from three mountain areas in northwestern Ireland. *Bulletin of the Irish Biogeographical Society* **30**: 302-333.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork. (Col., Derm., Hem., Hym., Lep., Odon., Orth.)

McCracken, A. R. and Blackshaw, R. P. (1993) The protection of the Northern Ireland nursery stock industry from harmful organisms. Pp 55-66. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Dipt., Hem., Lep., Thysan.)

McGarrigle, M. (2014) Assessment of small water bodies in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 119-1128.

McGoff, E., Aroviita, J., Pilotto, F., Miler, O., Solimini, A. G., Porst, G., Jurca, T., Donohue, L. and Sandin, L. (2013) Assessing the relationship between the Lake Habitat Survey and littoral macroinvertebrate communities in European lakes. *Ecological Indicators* **25**: 205-214. (Col., Dipt., Eph., Hem., Lep., Megal., Odon., Plec., Trich.: no species)

McGoff, E. and Irvine, K. (2009) A test of the association between Lake Habitat Quality Assessment and macroinvertebrate community structure. *Aquatic Conservation: Marine & Freshwater Ecosystems* **19**: 520-533.

McGoff, E. and Sandin, L. (2012) Catchment land-use effects on littoral macroinvertebrates in response to local habitat structure and trophic state. *Fundamental and Applied Limnology* **180**: 111-121.

McGoff, E., Solimini, A. G., Pusch, M. T., Jurca, T. and Sandin, L. (2013) Does lake habitat alteration and land-use pressure homogenize European littoral macroinvertebrate communities? *Journal of Ecology* **50**: 1010-1018.

McGuinness, C. A., Bradley, C. and Kelly-Quinn, M. (2006) Composition of ephemeropteran communities along a pollution gradient in Irish rivers. *Verh. Internat. Verein. Limnol.* **29**: 1095-1098.

McLean, I. (2008) Notable recent records. *Sciomyzidae Recording Scheme Newsletter* **4**: 1-2. *In Bulletin of the Dipterists Forum* **No. 66**. (new *Pherbellia*)

McMahon, B. J., Anderson, A., Carnus, T., Helden, A. J., Kelly-Quinn, M., Maki, A., Sheridan, H. and Purvis, G. (2012) Different bioindicators measured at different spatial scales vary in their response to agricultural intensity. *Ecological Indicators* **18**: 676-683. (Hym., aquatic macroinvertebrates)

McMahon, B. J., Helden, A., Anderson, A., Sheridan, H., Kinsella, A. and Purvis, G. (2010) Interactions between livestock systems and biodiversity in south-east Ireland. *Agriculture Ecosystems & Environment* **139**: 232-238.

McMillan, N. F. (1986) Arthur Stelfox. *Ir. Nat. J.* **22**: 122-123.

Mead-Briggs, A. R. and Page, R. J. C. (1966) Ectoparasites from hares collected throughout the United Kingdom, January-March, 1964. *Entomologist's mon. Mag.* **103**: 26-34.

Michiels, S. and Spies, M. (2002) Description of *Conchapelopia hittmairorum* spec. nov. and redefinition of similar western Palaearctic species (Insecta, Diptera, Chironomidae, Tanypodinae). *Spixiana* **25**: 251-272. (*C. viator*)

Miler, O., Porst, G., McGoff, E., Pilotto, F., Donohue, L., Jurca, T., Solimini, A., Sandin, L., Irvine, K., Aroviita, J., Clarke, R. and Pusch, M. T. (2013) Morphological alternations of lake shores in Europe: A multimetric ecological assessment approach using benthic macroinvertebrates. *Ecological Indicators* **34**: 398-410. (Irish lakes mentioned)

Mitchell, F. (1986) Arthur Stelfox. *Ir. Nat. J.* **22**: 122.

Moffat, C. B. (1900) The habits of the Hairy-Armed Bat, *Vesperuge leisleri*, Kuhl. *Ir. Nat.* **9**: 235-240. (Dipt., Hym., Orth.)

—— (1930) The Hairy-armed Bat. *Ir. Nat. J.* **3**: 50-54. (Col., Dipt.)

—— (1935) *Butterflies and birds*. *Ir. Nat. J.* **5**: 225-227. (Hym., Lep., Odon.)

Monaghan, N. T. (1995) Fossil insect from Carboniferous rocks of Co Clare. *Ir. Nat. J.* **25**: 155.

Moriarty, C. (1972) Studies of the eel *Anguilla anguilla* in Ireland. 1. In the lakes of the Corrib system. *Irish Fisheries Investigations Series A* **No. 10**: 1-39.

—— (1973) Studies of the eel *Anguilla anguilla* in Ireland 2. In Lough Conn, Lough Gill and North Cavan lakes. *Irish Fisheries Investigations Series A* **No. 13**: 1-13.

—— (1974) Studies of the eel *Anguilla anguilla* in Ireland 3. In the Shannon catchment. *Irish Fisheries Investigations Series A* **No. 14**: 1-25.

—— (1975) Studies of the eel *Anguilla anguilla* in Ireland 4. In the Munster Blackwater River. *Irish Fisheries Investigations Series A* **No. 15**.

—— (1979) Biological studies of yellow eels in Ireland. *Rapport et Proces-verbaux des Reunion. Conseil Permanent International pour l'exploration de la mer* **174**: 16-21.

Morris, M. G. (1973) A method of keeping records of the vice-county distributions of insects and other organisms. *Entomologist's mon. Mag.* **108** (1972): 248-250.

—— (1990) The Watsonian vice-county system. *Entomologist's Rec. J. Var.* **102**: 25-30.

—— (2012) Zoogeography, politics and entomology. *The Coleopterist* **21**: 95-99.

Mulcahy, M. F., Kelly, T. C. and Holland, C. (1998) Parasites and pathology of Irish freshwater animals. Pp 159-178. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin. (Eph., Hem., Siphon.)

Mullen, K., Fahy, O. and Gormally, M. (2003) Ground flora and associated arthropod communities of forest road edges in Connemara, Ireland. *Biodiversity and Conservation* **12**: 87-101. (Dipt., Hem.)

Murchie, A. (2016) Meeting report: the State of Insect Conservation in Ireland. *Antenna* **38**: 123-129. (presentations given on threatened species)

Murchie, A. K. (2004) Meeting Reports. Irish Regional Meeting. Biodiversity and management of insects in agricultural and natural Irish landscapes. *Antenna* **28**: 250-252.

—— (2009) Meeting report. The 2008 Northern Irish Regional. *Antenna* **33**: 96-97. (Diptera: bluetongue virus)

—— (2010) Insect displays. *Bulletin of the Amateur Entomologists' Society* **69**: 57-61.

—— (2019) Irish Regional Meeting. Newry, 28th February 2019. *Antenna* **43**: 140-142.

Murphy, J. F. and Giller, P. S. (2001) Hazel leaf breakdown in two low-order streams differing in the functional efficiency of their detritivore assemblages. *Archiv für Hydrobiologie* **150**: 249-267.

Murphy, P. M. and Carter, C. E. (1984) A summer survey of the littoral macroinvertebrate fauna (excluding the Chironomidae) of Lough Neagh, N. Ireland. *Proceedings of the Royal Irish Academy* **84**B: 103-108. (Eph., Hem., Trich.)

Murray, D. A. (2015) Lost and found in Ireland; how a data label resulted in a postal delivery to *Metriocnemus* (*Inermipupa*) *carmencitabertarum* (Orthocladiinae). *CHIRONOMUS Journal of Chironomidae Research* **No. 28**: 57-59.

Murray, D. A., O'Connor, J. P. and Ashe, P. (1999) Obituary: Carmel F. Humphries Ph.D., D.Sc., M.R.I.A. (1909-1986). *Bulletin of the Irish Biogeographical Society* **23**: 162-164.

Nash, R. (1983) A brief summary of the development of entomology in Ireland during the years 1790-1870. *Ir. Nat. J.* **21**: 145-150.

Nash, R., Boston, M. and O'Connor, J. P. (1983) A proposal for a checklist of Irish insects. *Ir. Nat. J.* **21**: 188.

Nash, R. and O'Connor, J. P. (1990) Insects imported into Ireland 9. Records of Orthoptera, Dictyoptera, Homoptera and Hymenoptera including Roger's ant, *Hypoponera punctatissima* (Roger). *Ir. Nat. J.* **23**: 255-257.

—— (2000) Checklisting the Irish insect fauna. Pp 97-102. *In* Rushton, B. S. (ed.) *Biodiversity: the Irish dimension*. Royal Irish Academy, Dublin.

—— (2011) Notes on the Irish entomologist Alexander Henry Haliday (1806-1870). *Bulletin of the Irish Biogeographical Society* **35**: 64-112. (Many orders but especially Col., Dipt., Hem., Hym., Thysan.)

Nash, R., Ross, H. C. G. and Vane-Wright, R. I. (1980) Contributions to Natural History by Dr Robert Templeton, R.A. with special reference to Ceylon – a request for information. *Ir. Nat. J.* **20**: 31-33, plates 3-4.

National Biodiversity Data Centre (2020) Biodiversity Maps. <https://maps.biodiversityireland.ie/> (distributions)

National Museums Northern Ireland (2004-12) Irish Natural History Literature. <http://www.habitas.org.uk/literature/>

NBN Atlas Northern Ireland (2020) NBN Atlas Northern Ireland - part of the National Biodiversity Network, St. Mary's Gate, Lace Market, Nottingham. <https://northernireland.nbnatlas.org/>

Neale, M., Nelson, B. and Rippey, B. (2003) Notable records of aquatic insects (Plecoptera, Hemiptera and Coleoptera) from Northern Ireland. *Ir. Nat. J.* **27**: 295-300.

Nelson, B. (2001) Aquatic insect communities of Northern Irish freshwaters. *Verh. Internat. Verein. Limnol.* **27**: 891-894. (Col., Hem., Odon.)

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85. (Col., Derm., Dipt., Hem., Hym., Lep., Megal., Odon., Orth.)

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland. (Col. (Aquatic beetles), Eph., Hym.: (bees, Apoidea), Lep. (butterflies, macromoths), Odon., Plec.)

Nelson, B. H. and Anderson, R. (1998) Land and freshwater invertebrates. Pp 85-88. *In* Kaznowska, S. (ed.) *Coastal directory of the British Isles.* Region 4/17. JNCC, Peterborough. (Col., Dipt., Hem., Hym., Lep.)

Newman, L. H. (1950) Report on the T. Greer auction sale. *Entomologist's Rec. J. Var.* **62**: 43-44.

Nolan, M. (2015) Alfred Furlong: a nineteenth century Irish entomologist. *Bulletin of the Irish Biogeographical Society* **39**: 252-274. (Col.)

Northern Ireland Priority Species (2020) CEDaR - Online Resources. <http://www.habitas.org.uk/priority/>

Ó Floinn, T. *et al.* (1978) *Ainmneacha plandaí agus ainmhithe. Flora and fauna nomenclature.* Stationery Office, Dublin. (Irish names for insects)

O'Brien, M., Spillane, C., Meade, C. and Mullins, E. (2008) An insight into the impact of arable farming on Irish biodiversity: a scarcity of studies hinders a rigorous assessment. *Biology and Environment: Proceedings of the Royal Irish Academy* **108**B: 97-108. (Col., Coll., Hym., Lep.)

O Connor, Á. (2016) Incorporating nature conservation objectives and measures into the Water Framework Directive. *Biology and Environment: Proceedings of the Royal Irish Academy* **116**B: 329-337.

O Connor, Á., Bradish, S., Reed, T., Moran, J., Regan, E., Visser, M., Gormally, M. and Sheehy Skeffington, M. (2004) A comparison of the efficacy of pond-net and box sampling methods in turloughs - Irish ephemeral aquatic systems. *Hydrobiologia* **524**: 133-144.

O'Connor, J. P. (1979) James Nathaniel Halbert: his MSS in the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **3**: 3-6.

O'Connor, J. P. (1980) William Frederick Johnson: notes on his entomological collection and MSS housed in the National Museurn of Ireland. *Bulletin of the Irish Biogeographical Society* **4**: 46-49.

—— (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14. (Col., Coll., Derm., Dipt., Hem., Hym., Lep., Orth., Psoc., Siphon., Thysanura)

—— (1981) A visit to Clonbrock, 1976. *Entomologist's Rec. J. Var.* **93**: 146-147. (R. E. Dillon)

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44. (Anop., Col., Dicty., Dipt., Hem., Hym., Lep., Psoc., Siphon., Thysanura)

—— (1985) Bernard O'Reilly - genius or rogue? *Ir. Nat. J.* **21**: 379-384. (Leskean insects)

—— (1988) Some entomologists associated with the Dublin Naturalists' Field Club. Pp 47-54. *In* Wyse Jackson, P. S., Moriarty, C. and Akeroyd, J. R. (eds) *In the field of the naturalists*. Occasional Publication **No. 2**. Dublin Naturalists' Field Club, Dublin.

—— (1989) Obituary. Richard Charles Faris 1911-1984. *Ir. Nat. J.* **23**: 37-38.

—— (1996) Bicentenary of the Natural History Museum, Dublin. *Ir. Nat. J.* **25**: 306-308.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history*. The Lilliput Press, Dublin. (Col., Derm., Dicty., Dipt., Eph., Hem., Hym., Lep., Neur., Odon., Orth., Phth., Plec., Psoc., Siphon., Thysan., Thysanura, Trich.)

—— (1999) Obituary: Bryan P. Beirne MRIA, FRES, FLS, FZS, FESC (1918-1998). *Ir. Nat. J.* **26** (1998): 4-7.

—— (2000) Obituary. Marcus William Robert de Vere Graham (1915-1995). *Ir. Nat. J.* **26** (1999): 217-218.

—— (2005) A catalogue and index of the publications of the *Irish Biogeographical Society* (1977-2004). *Occasional Publication of the Irish Biogeographical Society* **Number 8**: 1-74. (Col., Coll., Dipt., Eph., Hem., Hym., Lep., Megal., Neur., Odon., Orth., Phth., Plec., Prot., Trich.)

—— (2009) Natural history collections. Pp 105-117. *In* Cunningham, B., Fitzpatrick, S. and Schnabel, P. (eds) *Treasures of the Royal Irish Academy Library.* Royal Irish Academy, Dublin. xi, 302pp.

—— (2012) *Second supplement to a bibliography of Irish entomology.* The Irish Biogeographical Society, Dublin. i-iii + 186pp.

—— (2012) Some natural history collections at the Academy Library. Pp 37-43. *In* Fitzpatrick, S. (ed.) *Science at the Royal Irish Academy. 'Uniting whatever is pleasing with whatever is useful'. An Exhibition: July 2012-May 2013.* Royal Irish Academy, Dublin.

—— (2013) Checklisting the Irish insects. *Antenna* **37**: 124-127.

—— (2015) *A catalogue and atlas of the caddisflies (Trichoptera) of Ireland. Occasional Publication of the Irish Biogeographical Society* **Number 11**. viii + 646pp. Published by the Irish Biogeograpical Society in association with the National Museum of Ireland. (bibliographical data on various trichopterists)

O'Connor, J. P. (2016) A celebration (1975-2016): *Bulletin* **Number 40**. *Bulletin of the Irish Biogeographical Society* **40**: 184-187. (concerning the Irish Biogeographical Society)

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp. (Col., Coll., Derm., Dicty., Dipt., Hem., Hym., Lep., Neur., Orth., Phth., Psoc., Siphon., Thysan., Thysanura)

—— (2007) Contributions towards a checklist of insects feeding on Irish trees. Part 1: Hymenoptera, Lepidoptera and Orthoptera. *Bulletin of the Irish Biogeographical Society* **31**: 197-267.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165. (Anop., Col., Derm., Dicty., Dipt., Hem., Hym., Lep., Neur., Psoc., Siphon., Thysan., Thysanura)

O'Connor, J. P., Ashe, P. and Walsh, J. (2005) *First Supplement to A Bibliography of Irish Entomology.* The Irish Biogeographical Society in association with the National Museum of Ireland, Dublin. i-v + 186pp.

O'Connor, J. P., Bowdrey, J. P., Redfern, M. and Higginbottom, T. (2008) Records of Irish galls (Fungi. Insecta: Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera; Acarina: Eriophyidae) including eight species new to Ireland and one deletion from the Irish list. *Bulletin of the Irish Biogeographical Society* **32**: 40-61.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24. (Col., Dipt., Eph., Hem., Megal., Odon., Plec., Trich.)

O'Connor, J. P. and Murphy, D. (1991) Notes on O'Mahony material recently acquired by the National Museum of Ireland. *Ir. Nat. J.* **23**: 379-380.

O'Connor, J. P. and Nash, R. (1981) Notes on five species of insect (Hemiptera: Coleoptera) imported into Ireland. *Ir. Nat. J.* **20**: 299-300.

—— (1982) Further records of insects (Dictyoptera, Lepidoptera, Coleoptera, Diptera) imported into Ireland. *Ir. Nat. J.* **20**: 393-395.

—— (1982) Notes on the entomological collection of A. H. Haliday (1806-1870) in the National Museum of Ireland, with a recommendation for type designations. *Proceedings of the Royal Irish Academy* **82**B: 169-175, plates I-IV. (Col., Dipt., Hym., Thysan.)

—— (1983) Insects imported into Ireland 5. Records of Orthoptera, Hemiptera, Hymenoptera and Coleoptera. *Ir. Nat. J.* **21**: 114-117.

—— (1984) Insects imported into Ireland 6. Records of Orthoptera, Dermaptera, Lepidoptera and Coleoptera. *Ir. Nat. J.* **21**: 351-353.

—— (1986) Insects imported into Ireland 8. Records of Hemiptera, Coleoptera, Diptera and Lepidoptera. *Ir. Nat. J.* **22**: 104-107.

O'Connor, J. P., Nash, R. and Anderson, R. (1983) Insects imported into Ireland 4. Records of Dictyoptera, Hemiptera, and Coleoptera (including *Pycnomerus fuliginosus* Erichson). *Ir. Nat. J.* **21**: 81-83.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25. (Col., Eph., Hem., Odon., Plec., Trich.)

—— (1978) Further notes on the aquatic invertebrates of Hare Island and its environs, Lough Ree, Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **2**: 37-39. (Eph., Hem., Megal., Plec., Trich.)

O'Connor, J. P., Scannell, M. J. P. and Speight, M. C. D. (1988) The state of taxonomy in Ireland. Pp 202-208. *In* Moriarty, C. (ed.) *Taxonomy - putting plants and animals in their place.* Royal Irish Academy, Dublin.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21. (Col., Dipt., Eph., Hem., Megal., Plec., Trich.)

O'Donnell, E. (2012) Site guide: Cape Clear Island, West Cork, Ireland. *Atropos* **46**: 15-25. (Lep., Odon.)

O'Farrell, A. F. and Butler, P. M. (1948) Insects and mites associated with the storage and manufacture of foodstuffs in Northern Ireland. *Economic Proceedings of the Royal Dublin Society* **3**: 343-407.

O'Grady, M. F. and King, J. J. (1992) Ecological changes over 30 years caused by drainage of a salmonid stream, the Bunree River. *Irish Fisheries Investigations Series A* **No. 34**: 3-16. (Col., Dipt., Eph., Plec., Trich.)

O'Halloran, J. and Giller, P. S. (1993) Forestry and the ecology of streams and rivers: lessons from abroad. *Irish Forestry* **50**: 35-52. (review of what may happen to macroinvertebrates)

O'Halloran, J., Irwin, S., Kelly, D. L., Kelly, T. C., Mitchell, F. J. G., Coote, L., Oxbrough, A., Wilson, M. W., Martin, R. D., Moore, K., Sweeney, O., Dietzsch, A. C., Walsh, A., Keady, S., French, V., Fox, H., Kopke, K., Butler, F. and Neville, P. (2011) *Management of biodiversity in a range of Irish forest types.*Report prepared for the Department of Agriculture, Fisheries and Food, Dublin. 391pp. (Col., Dipt., Lep.)

O'Mahony, E. (1924) Dublin insects. *Ir. Nat.* **33**: 8-9. (Col., Hym.)

—— (1925) The fauna of a tank. *Ir. Nat. J.* **1**: 19. (Col., Dipt., Hem.)

—— (1949) Ectoparasites from Fair Isle - 1. *Entomologist's mon. Mag.* **85**: 140.

—— (1950) Ectoparasites from Fair Isle - 2. *Entomologist's mon. Mag.* **86**: 71.

O'Riordan, C. E. (1983) *The Natural History Museum, Dublin.* Stationery Office, Dublin.

O'Riordan, C. E. and O'Connor, J. P. (1988) Arthur Stelfox. *Ir. Nat. J.* **22**: 498.

O'Rourke, F. J. (1950) The carriage of insects by aeroplane with reference to the possible introduction of noxious insects into Ireland. *Journal of the Department of Agriculture* (Ireland) **47**: 87-96.

—— (1950) The dangers of the carriage of insects by aircraft and a suggested precautionary measure. *Transactions of the 8th International Congress of Entomology, Stockholm, 1948*: 946-947.

—— (1957) Notes on the Zoology of the Dublin area. *Ir. Nat. J.* **12**: 189-190.

O'Sullivan, A. D., McCabe, O. M., Murray, D. A. and Otte, M. L. (1999) Wetlands for rehabilitation of metal mine wastes. *Biology and Environment: Proceedings of the Royal Irish Academy* **99**B: 11-17. (Col., Dipt., Eph.)

O'Sullivan, M. and Lavery, J. W. (1999) In memoriam: Raymond F. Haynes (1916-1997). *Bulletin of the Amateur Entomologists' Society* **58**: 65.

—— (2008) Eight days in the Burren (2007). *Entomologist's Rec. J. Var.* **120**: 107-117. (Col., Lep., Odon.)

O'Sullivan, M. J. (1990) Burren Lepidoptera. *Bulletin of the Amateur Entomologists' Society* **49**: 37-45. (Col., Dipt., Lep.)

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115. (Col., Dipt., Eph., Hem., Odon., Plec., Thysanura, Trich.)

Ottino, P. and Giller, P. (2004) Distribution, density, diet and habitat use of the otter in relation to land use in the Araglin valley, southern Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **104**B: 1-17. (unnamed insect remains)

Pentecost, A. (2009) The marl lakes of the British Isles. *Freshwater Reviews* **2**: 167-197.

Pickles, T. (2014) Obituaries. H. G. Mark Middleton (1940-2014). *British Journal of Entomology and Natural History* **27**: 194-195. (visited Ireland)

Pont, A. C. (2018) Obituary. Kenneth George Valentine Smith (1929-2017). *Entomologist's mon. Mag.* **154**: 217-232.

Porst, G., Brauns, M., Irvine, K., Solimini, A., Sandin, L., Pusch, M. and Miler, O. (2019) Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. *Ecological Indicators* **98**: 285-296. (Dipt., Eph., Trich.)

Porst, G. and Irvine, K. (2009) Implications of the spatial variability of macroinvertebrate communities for monitoring of ephemeral lakes. An example from turloughs. *Hydrobiologia* **636**: 421-438.

—— (2009) Distinctiveness of macroinvertebrate communities in turloughs (temporary ponds) and their response to environment variables. *Aquatic Conservation: Marine & Freshwater Ecosystems* **19**: 456-465.

Porst, G., Miler, O., Donohue, L., Jurca, T., Pilotto, F., Brauns, M., Solimini, A. and Pusch, M. (2016) Efficient sampling methodologies for lake littoral invertebrates in compliance with the European Water Framework Directive. *Hydrobiologia* **767**: 207-220. (Dipt., Odon., Trich.: no species)

Porter, K. and Young, R. (1978) Western Ireland - June 1977. *Bulletin of the Amateur Entomologists' Society* **37**: 65-68.

Poulton, E. B. (1906) Predacous insects and their prey. *Transactions of the Entomological Society of London* **1906**: 323-409. (Gen. and sp. Dipt.)

Power, E. F. and Stout, J. C. (2011) Organic dairy farming: impacts on insect flower interaction networks and pollination. *Journal of Applied Ecology* **48**: 561-569. (Dipt., Hym.)

Power, J. A. (1878) A contribution to the entomology of Ireland. *Entomologist* **11**: 2-8. (Col., Hem.)

Praeger, R. L. (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895. I. - General Account. *Ir. Nat.* **4**: 225-235. (Col., Coll., Lep.)

Praeger, R. L. (1898) Irish Field Club Union. Kenmare Conference. I. General Account. *Ir. Nat.* **7**: 201-206. (Col., Hem.)

—— (1904) Irish Field Club Union. Report of the Fourth Triennial Conference and Excursion, held at Sligo, July 12th to 18th, 1904, I.-General Account. *Ir. Nat.* **13**: 173-181. (Col., Coll., Hem., Lep.)

—— (1920) Notes on Autumn plants. *Ir. Nat.* **29**: 95-105. (Col., Hym., Lep.)

—— (1949) *Some Irish naturalists. A biographical note-book.* W. Tempest, Dundalgan Press, Dundalk.

Praeger, R. Ll. (1950) *Natural history of Ireland*. Republished 1972. EP Publishing, London. (Col., Dipt., Hym., Lep., Neur., Odon., Plec., Psoc., Trich.)

Purvis, G., Anderson, A., Baars, J.-R., Bolger, T., Breen, J., Connolly, J., Curry, J., Doherty, P., Doyle, M., Finn, J., Geijzendorffer, I., Helden, A., Kelly-Quinn, M., Kennedy, T., Kirwan, L., McDonold, J., McMahon, B., Mikcshe, D., Santorum, V., Schmidt, O., Sheehan, C. and Sheridan, H. (2009) *Ag-Biota - Monitoring, Functional Significance and Management for the Maintenance and Economic Utilisation of Biodiversity in the Intensively Farmed Landscape*. STRIVE Report (2001-CD/B1-M1). Environmental Protection Agency, Johnstown Castle, Wexford

Purvis, G., Bolger, T., Breen, J., Connolly, J., Curry, J., Finn, J., Kelly-Quinn, M., Kennedy, T., Schmidt, O., Schulte, R. and Whelan, J. (2005) The significance of biodiversity in agriculture: relevance, aims and progress of the Ag-Biota Project. *Tearmann* **4**: 29-50.

Purvis, G. and Curry, J. P. (1978) The effects of grazing and silage production systems on the epigeal fauna of grassland. *In* The Proceedings of the Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society Ser. A* **6**: 317-325.

—— (1980) Successional changes in the arthropod fauna of a new ley pasture established on previously cultivated arable land. *Journal of Applied Ecology* **17**: 309-321. (Col., Coll. (named to species), Dipt., Hem., Hym., Thysan.)

—— (1981) The influence of sward management on foliage arthropod communities in a ley grassland. *Journal of Applied Ecology* **18**: 711-725. (Col., Coll. (named to species), Dipt., Hem., Hym., Lep., Psoc., Thysan.)

—— (1984) The influence of weeds and farmyard manure on the activity of Carabidae and other ground-dwelling arthropods in a sugar beet crop. *Journal of Applied Ecology* **21**: 271-283. (Col. (named to species), Derm., Dipt., Hem., Hym., Lep., Neur.)

R. F. B. (1980) Obituary. Baron Charles George Maurice de Worms, M.A., Ph.D., F.R.I.C., F.L.S., F.R.E.S., M.B.O.U. *Proceedings and Transactions of the British Entomological and Natural History Society* **13**: 37-39. (collected in Ireland)

Redfern, M., Shirley, P. and Bloxham, M. (2011) *British plant galls.* Second edition. FSC. Occasional Publication **125**. iv, 432pp. (Col., Hem., Hym.)

Rees, C. J. and Sutton, S. L. (1960) Entomological Survey, Cape Clear Island, 1960. Interim Report. *Cape Clear Bird Observatory Report* **2**: 29-30.

Regan, E. (2001) Research reports. Monitoring biodiversity in turloughs: selection of appropriate bioindicators for an ecotonal habitat. *Antenna* **25**: 274-275.

—— (2009) *Irish butterflies and insects*. Appletree Press, Belfast. (Col., Hym., Lep., Odon., Orth., Siphon.)

Regan, E. (2016) Insects. Perceived. A report from the RES Annual Science Meeting & International Symposium — Ento '15—2-4 September 2015. *Antenna* **40**: 28-31. (meeting held in Dublin)

Regan, E., Nelson, B., McCormack, S., Nash, R. and O'Connor, J. P. (2010) Countdown to 2010: can we assess Ireland's insect species diversity and loss? *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 109-117. (all orders)

Reilly, E. (2003) The contribution of insect remains to an understanding of the environment of Viking-age and medieval Dublin. Pp 40-63. *In* Duffy, S. (ed.) *Medieval Dublin IV*. Four Courts Press, Dublin.

—— (2004) Insect remains. Pp 67-80. *In* O'Donovan, E. *et al*. (eds) Excavations at Friar Street Cashel: a story of urban settlement AD 1200-1800. *Tipperary Historical Journal* **2004**. Tipperary Historical Society, Thurles.

—— (2006) The insects, the body and the bog. Pp 155-171. *In* Bermingham, N. and Delaney, M. (eds) *The Tumbeagh Bog Body*. Wordwell Ltd, Bray.

—— (2008) An ever-closing gap? Modern ecological and palaeoecological contributions towards understanding the Irish post-glacial insect fauna. Pp 63-71. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement.* (Col., Dipt., Hym., Odon., Orth.)

—— (2008) A study of a Bronze Age insect fauna. Pp 443-456. *In* Doody, M. (ed.) The Ballyhoura Hills Project. *Discovery Programme Monograph* **7**. Wordwell Ltd, Bray.

—— (2009) Insect remains from Lemanaghan, 1996-2001. Pp 131-149. *In* O'Carroll, E. and Whittaker, J. (eds) *Peatland Excavations 1999-2000: Lemanaghan Excavations*. Wordwell Ltd, Bray.

Reynolds, J. D. (1985) Karstic freshwater habitats of the Aran Islands, Co Galway, with preliminary notes on their fauna. *Ir. Nat. J.* **21**: 430-435. (Col., Hem., Odon., Trich.)

—— (1985) Invertebrates of Irish midlands raised bogs: part II. Odonata, aquatic Hemiptera, Trichoptera. *Bulletin of the Irish Biogeographical Society* **8**: 98-102.

—— (1986) Some invertebrates of Lough Roe, Co. Offaly: a rare and endangered bogland habitat. *Bulletin of the Irish Biogeographical Society* **9**: 41-45. (Col., Eph., Hem., Odon., Trich.)

—— (1990) Ecological relationships of peatland invertebrates. Pp 135-143. *In* Doyle, G. J. (ed.) *Ecology and conservation of Irish peatlands.* Royal Irish Academy, Dublin.

—— (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684. (Col., Eph., Hem., Odon., Plec., Trich.)

—— (2001) Robert Edmund Blackith (1923-2000). *Bulletin of the Irish Biogeographical Society* **25**: 301-306.

—— (2008) Man-handled? How and when did freshwater invertebrates cross the sea to Ireland? A review with particular reference to crustaceans. Pp 83-95. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Ir. Nat. J. Special Supplement*. (Col., Dipt., Eph., Hem., Plec.)

Reynolds, J. D., Cooke, D., Simon, N., Allott, N. and Brennan, M. (1994) Macroinvertebrate communities of poorly buffered afforested and non-afforested streams in western Ireland. *Verh. Internat. Verein. Limnol.* **25**: 1496-1501. (Col., Dipt., Eph., Plec., Trich.)

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin. (Review: Col., Dipt., Eph., Hem., Lep., Megal., Odon., Orth., Trich.)

Reynolds, J. D. and Hunter, C. (1985) Evaluation of the use of artificial substrates in sampling the invertebrate fauna of sewage fungus slimes in Irish rivers. *Verh. Internat. Verein. Limnol.* **22**: 2239-2243. (Col., Dipt., Eph., Plec., Trich.)

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream - and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730. (Col., Dipt., Eph., Hem., Plec., Trich.)

Reynolds, S. C. and Scannell, M. J. P. (1992) A history of the Limerick Naturalists' Field Club, 1892-1913. *Ir. Nat. J.* **24**: 101-106.

Richards, O. W. (1961) The fauna of an area of limestone pavement on the Burren, Co. Clare. *Proceedings of the Royal Irish Academy* **62**B: 1-7.

—— (1964) The entomological fauna of Southern England with special reference to the country round London. *Transactions of the Society of British Entomology* **16**: 1-48.

Rippey, I. (2011) Obituary Trevor Dempster Boyd, M.B.E., F.R. Met. S. 12th November 1931-23rd December 2010. *Butterfly Conservation Northern Ireland Newsletter* **Spring 2011**. 2pp.

Robertson, P. A. and Whelan, J. (1987) The food of the red fox (*Vulpes vulpes*) in Co. Kildare, Ireland. *Journal of Zoology, London* **213**: 740-743. (Col., Dipt., Hym., Lep.)

Ross, C. G. and Nash, R. (1985) The development of Natural History in early nineteenth century Ireland. Pp 13-27. *In From Linnaeus to Darwin: commentaries on the history of biology and geology.* Society for the History of Natural History, London.

Russo, L., Memmott, J., Montoya, D., Shea, K. and Buckley, Y. M. (2014) Patterns of introduced species interactions affect multiple aspects of network structure in plant-pollinator communities. *Ecology* **95**: 2953-2963. (Col., Dipt., Hym., Lep.)

Ryan, D. K. and Kelly-Quinn, M. (2016) Riparian vegetation management for water temperature regulation: implications for the production of macroinvertebrate prey of salmonids. *Fisheries Management and Ecology* **23**: 519-530

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Col., Derm., Dipt., Hem., Hym., Lep., Thysan.)

Ryan, J. G., O'Connor, J. P. and Beirne, B. P. (1984) *A Bibliography of Irish Entomology*. Flyleaf Press, Dublin. i-viii, 1-363pp.

Ryan, M. F. and Daly, P. J. (1978) Plant constituents and elucidation of primary events of insect olfaction. *Entomologia Experimentalis et Applicata* **24**: 463-465.

Ryan, M. F. and Ryan, J. (1973) The natural mortality of cabbage root fly eggs in peatland. *Scientific Proceedings of the Royal Dublin Society Ser. B* **3**: 195-199.



Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60. (Col., Coll., Dipt., Eph., Plec., Trich.)

Samouelle, G. (1819) *The entomologist's useful compendium, or An introduction to the knowledge of British insects: comprising the best means of obtaining and preserving them, and a description of the apparatus generally used; together with the genera of Linné, and the modern method of arranging the classes Crustacea, Myriapoda, Spiders, Mites and Insects, from their affinities and structure, according to the views of Dr. Leach ; also an explanation of the terms used in entomology; calendar of the times of appearance and usual situations of near 3,000 species of British insects ; with instructions for collecting and fitting up objects for the microscope*; *illustrated with twelve plates*. Thomas Boys, London. (also a 1824 edition) (Col., Dipt., Hem.,Thysan., Trich.)

Scannell, M. J. P. (1992) 28th Aer Lingus Young Scientists' Exhibition. *Ir. Nat. J.* **24**: 175. (Dipt., Hym.)

Scharff, R. F. (1904) The diary of an Irish naturalist. *Ir. Nat.* **13**: 163-164. (Col., Lep.)

—— (1913) The relationships of the Irish fauna. *Proceedings of the Belfast Naturalists' Field Club* **7**: 59. (Col., Odon.)

—— (1916) On the Irish names of invertebrate animals. *Ir. Nat.* **25**: 140-152. (Ana., Col., Derm., Dipt., Hem., Hym., Orth., Siphon., Trich.)

Scharff, R. F. and Carpenter, G. H. (1899) Some animals from the Macgillicuddy's Reeks. *Ir. Nat.* **8**: 213-218. (Col., Coll., Dipt., Hem., Lep., Odon)

Schmidt, O., Bolger, T., Creamer, R., Brennan, F. and Dobson, A. D. W. (2018) The Living Soil: Biodiversity and Functions. Pp 257-265. *In* Creamer, R. and O'Sullivan, L. (eds) *The Soils of Ireland. World Soils Book Series*. Springer *International* Publishing. <https://doi.org/10.1007/978-3-319-71189-8_18>

Scott, D. A. (2003) Reports from coastal stations - 2002. Dursey Island, Co. Cork. *Atropos* **18**: 66-69. (Lep., Odon.)

—— (2005) Reports from coastal stations - 2004. Dursey Island, Co. Cork. *Atropos* **24**: 75-76. (Lep., Odon.)

—— (2006) Report from coastal stations - 2005. Dursey Island, Co. Cork. *Atropos* **27**: 75. (Lep., Odon.

—— (2007) Reports from coastal stations - 2006. Dursey Island, Co. Cork. *Atropos* **30**: 85-86. (Lep., Odon.)

Sellick, J. (2006) Alexander Henry Haliday Correspondence (1830-1870). *Antenna* **30**: 102.

—— (2006) Library news. The correspondence of Alexander Henry Haliday. *Antenna* **30**: 189.

Shaw, M. R. and Agassiz, D. J. L. (1990) Obituary. Edward Charles Pelham-Clinton (1920-1988). *British Journal of Entomology and Natural History* **3**: 107-114.

Sheehy Skeffington, M., Moran, J., O'Connor, Á., Regan, E., Coxon, C. E., Scott, N. E. and Gormally, M. (2006) Turloughs - Ireland's unique wetland. *Biological Conservation* **133**: 265-290. (invertebrates include Col., Dipt., Lep., Odon.)

Sheehy Skeffington, M. J. and O'Connell, C. A. (1998) Peatlands of Ireland. Pp 39-66. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin. (short section on invertebrates)

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106. (Col., Coll., Derm., Dipt., Hem., Hym., Neur.)

Shiel, C. B., Duvergé, P. L., Smiddy, P. and Fairley, J. S. (1998) Analysis of the diet of Leisler's bat (*Nyctalus leisleri*) in Ireland with some comparative analyses from England and Germany. *Journal of Zoology, London* **246**: 417-425. (Col., Dipt., Eph., Hem., Hym., Lep., Neur., Siphon., Trich.)

Shiel, C. B., McAney, C. M. and Fairley, J. S. (1991) Analysis of the diet of Natterer's bat *Myotis nattereri* and the common long-eared bat *Plecotus auritus* in the West of Ireland. *Journal of Zoology, London* **223**: 299-305. (Col., Derm., Dipt., Hem., Hym., Lep., Trich.)

Sladen, F. W. L., Bagnall, R. S. and Collin, J. E. (1913) Some interesting British Insects (V). *Entomologist's mon. Mag.* **49**: 171-174. (Dipt., Hym.)

Sleeman, D. P. (1989) Ectoparasites of the Irish stoat. *Medical and Veterinary Entomology* **3**: 213-218. (Phth., Siphon.)

—— (2002) Insects and other invertebrates found in the guts of sea trout (*Salmo trutta* L.). *Ir. Nat. J.* **26** (2001): 381-382. (Dipt., Eph., Hym., Trich.)

—— (2013) Fly fishing accidents and bats. *Ir. Nat. J.* **32**: 138-141.

Small, J. (1926) Long tongues. *Ir. Nat. J.* **1**: 94. (Hym., Lep.)

Smiddy, P. and Sleeman, P. (2011) *Irish wild mammals: a guide to the literature. Third edition.* Privately published, Cork.

Smith, K. G. V. (1986) *A manual of forensic entomology*. Natural History Museum Publications, London.

Smith, K. G. V. and Smith, V. (1983) *A bibliography of the entomology of the smaller British offshore islands.* Classey, Faringdon. (Aran, Cape Clear, Clare Island etc.)

Sokoloff, P. (2001) Yet another "Lady" entomologist from the past. *Bulletin of the Amateur Entomologists' Society* **70**: 195-199. (Jane King (later Lady Mahon) and Mary King (later Mary Ward))

Soufi, R., Varadinova, E., McGarrigle, M and Kelly-Quinn, M. (2015) Comparison of the performance of a quality rating system in two contrasting ecoregions. *Acta Zoologica Bulgarica* **67**: 529-539. (no species)

Southern, R. (1935) Reports from the Limnological Laboratory. III. The food and growth of Brown Trout from Lough Derg and the River Shannon. *Proceedings of the Royal Irish Academy* **42**B: 87-172. (Col., Dipt., Eph., Hym., Trich.)

Speight, M. C. D. (1977) Invertebrates of the dunes and grassland. Pp 107-111. *In North Bull Island Dublin Bay -A Modern Coastal Natural History.* Royal Dublin Society, Dublin.

—— (1977) Athlone Field Meeting: insects collected on and near the shores of Lough Ree. *Bulletin of the Irish Biogeographical Society* **1**: 27-36. (also summarises previously published records as well as original research. Col., Dipt., Eph., Hem., Hym., Megal., Neur., Odon., Orthop., Plec., Psoc., Trich.)

Speight, M. C. D. (1985) Present-day use of prehistoric pine timber ("bog-deal") by woodboring insects and its faunal implications. *Ir. Nat. J.* **21**: 448-449. (Col., Dipt.)

—— (1985) The extinction of indigenous *Pinus sylvestris* in Ireland: relevant faunal data. *Ir. Nat. J.* **21**: 449-453. (Col., Dipt., Hem., Hym.)

—— (1985) The plight of the invertebrates in Europe. *Bulletin of the Irish Biogeographical Society* **8**: 111-113.

—— (1986) Work of the European invertebrate survey committee. *Bulletin of the Irish Biogeographical Society* **9**: 55-56.

—— (1986) Attitudes to insects and insect conservation. *Proceedings of the 3rd European Congress of Entomology,* Amsterdam, part 3: 369-385.

—— (1986) Use of invertebrates, as exemplified by certain insect groups, in considering hypotheses about the history of the Irish postglacial fauna. Pp 60-66. *In* Sleeman, D. P., Devoy, R. J. and Woodman, P. C. (eds) *Proceedings of The Postglacial Colonization Conference*. *Occasional Publication of the Irish Biogeographical Society* **Number 1**. (Col., Dipt.)

—— (1987) *European invertebrate animals.* Office of Public Works, Dublin. 22pp.

—— (1991) The fauna of Irish sand dunes. Pp 67-71. *In* Quigley, M. B. (ed.) *A guide to the sand dunes of Ireland.* European Union for dune conservation and management, Dublin.

—— (1992) Distribution data, threat categories and site evaluation. *Proceedings of the 8th International Colloquium EIS*, Brussels (1991): 7-21.

—— (1997) Invertebrate species lists as management tools: an example using databased information about Syrphidae (Diptera). Pp 74-83. *Proceedings of the Colloquium on conservation, management and restoration of habitats for invertebrates: enhancing biological diversity. Environmental Encounters Series* **No 33**. Council of Europe, Strasbourg.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60.

Speight, M. C. D. and Castella, E. (1995) Bugs in the system: relationships between distribution data, habitat and site evaluation in development of an environmental assessment procedure based on invertebrates. Pp 1-9. *In* Valovirta, I., Harding, P. T. and Kime, D. (eds) *Threatened species and bioindicators at the pan-European level. Proceedings of the 9th International Colloquium EIS Helsinki.* WWF Finland, Helsinki.

—— (2001) An approach to interpretation of lists of insects using digitised biological information about the species. *Journal of Insect Conservation* **5**: 131-139. (Dipt.)

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68. (Col., Dipt., Hem., Hym., Lep., Odon., Plec.)

Speight, M. C. D. and Healy, B. (1977) Arachnida and Insecta. Pp 147-156. *In North Bull Island Dublin Bay - A Modern Coastal Natural History*. Royal Dublin Society, Dublin. (Anop., Col., Coll., Derm., Dipt., Hem., Hym., Lep., Neur., Psoc., Siphon., Thysan., Trich.)

Speight, M. C. D. and Legrand, J. (1984) *Coenagrion lunulatum* (Odonata): morphology of the female and notes on a second Irish colony. *Ir. Nat. J.* **21**: 237-242. (Dipt., Hem., Hym., Neur., Odon.)

Speight, M. C. D. and Madden, B. (1987) Insects of peatlands. Pp 31-34. *In* O'Connell, C. (ed.) *The IPCC guide to Irish peatlands.* IPCC, Dublin.

Standen, R. (1897) Some observations by English naturalists on the Fauna of Rathlin Island, and Ballycastle District. I. - General Observations. *Ir. Nat.* **6**: 173-178. (Col., Lep.)

Stanley, D. A. and Stout, J. C. (2013) Quantifying the impacts of bioenergy crops on pollinating insect abundance and diversity: a field-scale evaluation reveals taxon-specific responses. *Journal of Applied Ecology* **50**: 335-344. (Dipt., Hym., Lep.)

Stelfox, A. W. (1922) Bees and clovers. A day on the Murrough of Wicklow. *Ir. Nat.* **31**: 89-91. (Hem., Hym.)

—— (1932) Northern insects in Co. Wicklow, Ireland. *Entomologist's Rec. J. Var.* **44**: 76-77. (Col., Hym., Lep.)

—— (1935) Brimstone Butterfly and early bees in Co. Dublin. *Ir. Nat. J.* **5**: 231.

—— (1940) Migrant insects at Blackrock Lighthouse, Co. Mayo. *Ir. Nat. J.* **7**: 303. (Hym., Odon.)

—— (1950) Miscellaneous entomological notes from Co. Antrim (1949). *Ir. Nat. J.* **10**: 45-46.

—— (1952) Retrospect. *Ir. Nat. J.* **10**: 282-284.

—— (1953) Retrospect (continued from *Ir. Nat. J.* **10**: p. 284). *Ir. Nat. J.* **11**: 11-16.

—— (1955) Obituaries: MSD Westropp 1867-l954. Henry Murray 1874-1955. *Ir. Nat. J.* **11**: 297-299.

Stelfox, A. W., Brunker, J. P. and Moffat, C. B. (1928) Phenological Report for 1927. *Ir. Nat. J.* **2**: 7-15. (Col., Hym., Lep.)

—— (1929) Phenological Report for 1928. *Ir. Nat. J.* **2**: 132-146. (Hym., Lep.)

Stelfox, G. M. (1988) Arthur Stelfox. *Ir. Nat. J.* **22**: 497-498.

Stephens, J. F. (1829-1830) *Illustrations of British Entomology; or, a synopsis of indigenous insects: containing their generic and specific distinctions; with an account of their metamorphoses, times of appearance, localities, food, and economy, as far as practicable.* 10 volumes. Baldwin and Cradock, London.

Stevens, S. (1871) Entomology in Ireland. *Entomologist* **5**: 350-364. (Col., Lep.)

Stinson, N. E. (1958) The food and growth of Brown Trout (*Salmo trutta* L.) in three rivers, Co. Tyrone. *Proceedings of the Royal Irish Academy* **59**B: 129-154.

Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast. (Col., Dipt., Hem., Hym., Lep., Thysan.)

Stout, J. (2012) Is biodiversity important for delivering ecosystem services. *Biodiversity Ireland* **Issue 10**: 17.

Stout, J. C. (2007) Pollination of invasive *Rhododendron ponticum* in Ireland. *Apidologie* **38**: 198-206. (Col., Dipt., Hym., Lep.)

Stout, J. C. and Casey, L. M. (2014) Relative abundance of an invasive alien plant affects insect-flower interaction networks in Ireland. *Acta Oecologica* **55**: 78-85.

Stout, J. C., Parnell, J. A. N., Arroyo, J. and Crowe T. P. (2006) Pollination ecology and seed production of *Rhododendron ponticum* in native and exotic habitats. *Biodiversity and Conservation* **15**: 755-777.

Suillebhain, S. (1963) *A handbook of Irish folklore*. Herbert Jenkins, London.

Sullivan, C. M., Shiel, C. B., McAney, C. M. and Fairley, J. S. (1993) Analysis of the diets of Leisler's *Nyctalus leisleri*, Daubenton's *Myotis daubentoni* and pipistrelle *Pipistrellus pipistrellus* bats in Ireland. *Journal of Zoology, London* **231**: 656-663. (Col., Dipt. (including *Nycteribia kolenati*), Eph., Hem., Hym., Lep., Neur., Psoc., Trich.)

Telfer, M. G. (2015) *Invertebrate survey of Glengarriff Woods Nature Reserve*. Report to National Parks and Wildlife Service.

Thompson, E., Cotton, D. C. F. and Ryan, S. (2002) Lough Gill Environmental Management Project. *Verh. Internat. Verein. Limnol.* **27** (2001): 3650-3653. (Hem., Trich.)

Thompson, G. B. (1935) (1958) The parasites of British birds and mammals. XXXIII. The insect ectoparasites of the House Sparrow (*Passer d. domesticus* L.). *Entomologist's mon. Mag.* **94**: 1-5.

—— (1961) The parasites of British birds and mammals. XXXV. The ectoparasites of the Swallow (*Hirundo rustica rustica* L.). *Entomologist's mon. Mag.* **97**: 79-83.

—— (1961) The parasites of British birds and mammals. - XXXVII. The ectoparasites of the Badger (*Meles meles meles* L.). *Entomologist's mon. Mag.* **97**: 156-158.

—— (1963) The parasites of British birds and mammals. -XL ectoparasites of Deer in Britain. *Entomologist's mon. Mag.* **99**: 186-189.

Thompson, G. M., Brunt, A., Loye, S., Jess, S. and Murchie, A. K. (2013) A low-cost bucket trap for newly emerged insects. *Ir. Nat. J.* **32**: 117-120. (Dipt., Hym.)

Thompson, W. (1856) *The Natural History of Ireland*. **Volume 4**. *Mammalia, Reptiles and Fishes, also Invertebrata*. (edited by Patterson, R.). Henry G. Bohn, London. (Insecta on Pp 365-366: Col., Coll., Derm., Dicty., Dipt., Eph., Hem., Hym., Lep., Mall., Megal. (Semblidae), Neur., Odon., Orthop., Plec., Psoc., Thyan., Trich., Zygentoma. The number of Irish species for each Order is given but no species names)

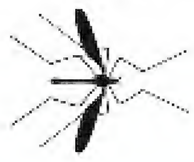
Tierney, D., Bowman, J., Caroni, R., Donnelly, K., Free, G., Little, R., McGarrigle, M., Kennedy, N., Kelly-Quinn, M. and Irvine, K. (2005) The profundal communities of candidate reference lakes in Ireland. *Verh. Internat. Verein. Limnol.* **29**: 461-464.

Tierney, D., Kelly-Quinn, M. and Bracken, J. J. (1998) The faunal communities of upland streams in the eastern region of Ireland with reference to afforestation impacts. *Hydrobiologia* **389**: 115-130. (Col., Eph., Plec.)

Tighe, W. (1802) *Statistical observations relative to the county Kilkenny made in the years 1800 and 1801.* Graisberry and Campbell, Dublin. (dedicated to the Dublin Society. Bees, *Tipula tritici*, *Ichneumon tipulae*)

Tratman, E. K. and Hazelton, M. (1974) Notes on the Irish cave sites from which fauna has been collected. *Transactions of the Cave Research Group of Great Britain* **15**: 217-220.

Turner, H. J. (1903) A week in Co. Kilkenny. *Ir. Nat.* **12**: 181-185. (Col., Dipt., Hem., Lep., Odon., Trich.)



Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin. (Col., Dipt., Eph., Hem., Odon., Plec., Trich.)

Uhthoff-Kaufmann, R. R. (1989) Browne *versus* Watson: round two. *Entomologist's Rec. J. Var.* **101**: 61-63.

Ulrich, W. and Fattorini, S. (2013) Longitudinal gradients in the phylogenetic community structure of European Tenebrionidae (Coleoptera) do not coincide with the major routes of postglacial colonization. *Ecography* **36**: 1106-1116.

Valentine, D. H. (1978) The pollination of introduced species, with special reference to the British Isles and the genus *Impatiens*. Pp 117-123. *In* Richards, A. J. (ed.) *The Pollination of Flowers by Insects*. Academic Press, London.

Vandewalle, M., de Bello, F., Berg, M. P., Bolger, T., Dolédec, S., Dubs, F., Feld, C. K., Harrington, R., Harrison, P. A., Lavorel, S., Martins da Silva, P., Moretti, M., Niemelä, J., Santos, P., Sattler, T., Sousa, J. P., Sykes, M. T., Vanbergen, A. J. and Woodcock, B. A. (2010) Functional traits as indicators of biodiversity response to land use changes across ecosystems and organisms. *Biodiversity and Conservation* **19**: 2921-2947.

Viney, M. (2000) Keeping tabs on tiny aliens. *The Irish Times* Sat, Aug 26, 2000, <https://www.irishtimes.com/news/keeping-tabs-on-tiny-aliens-1.1261188> (*Irish indoor insects. A popular guide*)

Walsh, M. L., Faris, R. C. and Stelfox, A. W. (1958) Galls on willows. *Ir. Nat. J.* **12**: 304-305.

Walton, G. A. (1967) A site of particular zoological interest - Doughruagh Mountain, Kylemore, Co. Galway. *Ir. Nat. J.* **15**: 309-312.

—— (1981) Inish Tearaght, erstwhile Brazil and Illa Verde (Green Isle). *Beam* **12**: 39-50. (The Journal of the Irish Lighthouse Service)

Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Col., Dipt., Hem., Hym., Lep.)

Watt, A. D., Bradshaw, R. H. W., Young, J., Alard, D., Bolger, T., Chamberlain, D., Fernandez-Gonzalez, F., Fuller, R., Gurrea, P., Henle, K., Johnson, R., Korss, Z., Lavelle, P., Niemela, J., Nowicki, P., Rebane, M., Scheidegger, C., Sousa, J. P., Van Swaay, C. and Vanbergen, A. (2007) Trends in biodiversity in Europe and the impact of land-use change. Pp 135-160. *In* Hester, R. E. and Harrison, R. M. (eds) *Biodiversity Under Threat - Issues in Environmental Science and Technology* **No 25**. Royal Society of Chemistry, Cambridge.

Weatherup, D. R. M. (2003) Fifty years on - Armagh Field Naturalists' Society. *Ir. Nat. J.* **27**: 281-287. (Lep.)

Weir, A. (1992) A plea for help with a flora of Laboulbeniales (Fungi: Ascomycotina) for Great Britain and Ireland. *The Coleopterist* **1**: 14-15. (seven known from Ireland)

Whilde, A. (1977) The Autumn and Winter food of mallard, *Anas p. platyrhynchos*. L. and some other Irish wildfowl. *Ir. Nat. J.* **19**: 18-21.

—— (1978) Further observations on the Autumn and Winter food of some Irish wildfowl. *Ir. Nat. J.* **19**: 149-152.

Whilde, T. (1994) *The natural history of Connemara*. Immel, London.

Williams, C. B. (1936) Collected records relating to insect migration: third series. *Proceedings of the Royal Entomological Society of London A* **11**: 5-10.

—— (1957) Insect migration. *Annual Review of Entomology* **2**: 163-180.

Wilson, G. and Bourke, K. (1934) Phenological Report for 1933. *Ir. Nat. J.* **5**: 28-30. (Hym., Lep.)

Wilson, K. (1984) A bibliography of Lough Hyne (Ine) 1687-1982. *Journal of Life Sciences of the Royal Dublin Society* **5**: 1-11.

Woodward, G., Bonada, N., Feeley, H. B. and Giller, P. S. (2015) Resilience of a stream community to extreme climatic events and long-term recovery from a catastrophic flood. *Freshwater Biology* **60**: 2497-2510. (Col., Dipt., Eph., Plec., Trich.)

Wright, D. W., Geering, Q. A. and Ashby, D. G. (1946-1947) The insect parasites of the carrot fly *Psila rosae* Fab. *Bulletin of Entomological Research* **37**: 507-529.

Wright, G. (1855) On fungi parasitic on insects; with particular reference to some lately discovered Irish specimens. *The Natural History Review (Proceedings of Societies)* **2**: 55-59, 1 plate (Col., Dipt., Hem., Hym., Lep.)

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389. (Col., Dipt., Eph., Hem., Megal., Neur., Odon., Plec., Trich.)

Wynne, C. A. and. Linnane, S. M. (2009) An investigation of macrophyte and macroinvertebrate communities in lowland sites on the rivers of Milltown (Muckno Mill) lake catchment, Co. Monaghan, Ireland. *Verh. Internat. Verein. Limnol* **30**: 1133-1136.

Wyse Jackson, P. N. (2009) Robert Ball (1802-1857): naturalist. *Ir. Nat. J.* **30**: 15-18.

Wyse Jackson, P. N. and Wyse Jackson, P. S. (1992) *The Irish Naturalist*: 33 years of natural history in Ireland 1892-1924. *Ir. Nat. J.* **24**: 95-101.

Young, R. (ed.) (1980) *A study of the Raven, Co. Wexford*. An Foras Forbartha and Forest & Wildlife Service.

CHAPTER 2. *ANOPLURA & *MALLOPHAGA
(*Phthiraptera)

Butler, F. T. and O'Connor, J. P. (1994) A review of the Irish Ischnocera and Amblycera (Phthiraptera). *Ir. Nat. J.* **24**: 449-457.

Cabot, D. (1974) Feather lice (Mallophaga) from Charadriiform birds collected at Galway Bay, Co. Galway. *Ir. Nat. J.* **18**: 145-150.

Carpenter, G. H. (1907) (*Trichodectes sphaerocephala*). *Ir. Nat.* **16**: 204.

Claassens, A. J. M. (1966) Lice (Phthiraptera) and blood sucking flies (Dipt., Hippoboscidae) from Irish birds and mammals. *Entomologist's mon. Mag.* **101** (1965): 110.

Clay, T. (1958) Revisions of Mallophaga genera *Degeeriella* from the Falconiformes. *Bulletin of the British Museum of Natural History* (Entomology) **7**: 121-207.

Clay, T. (1966) Contributions towards a revision of *Myrsidea* Waterston. I. (Menoponidae: Mallophaga). *Bulletin of the British Museum of Natural History* (Entomology) **17**: 327-395.

Doyle, Ú., Crook, A. C., Smiddy, P. and O'Halloran, J. (2005) Feather lice (Mallophaga) of the Irish dipper *Cinclus cinclus hibernicus*. *Ringing and Migration* **22**: 133-137.

Doyle, Ú., O'Halloran, J. and Smiddy, P. (2004) Records of the feather lice (Mallophaga) *Philopterus cincli* (Denny) and *Myrsidea franciscoloi* (Conci), two species new to Ireland. *Ir. Nat. J.* **27**: 440.

Hunter, S. A. (1934) Parasites of Badger. *Ir. Nat. J.* **5**: 72. (Anop., Siphon.)

—— (1947) The mammal ectoparasites of the North Bull Island, Dublin Bay. *Ir. Nat. J.* **9**: 78-79. (Anop., Siphon.)

—— (1947) *Leptinus testaceus* Mull. (Col., Leptinidae), additional Irish records. *Entomologist's mon. Mag.* **83**: 190. (Col., Siphon.)

Ir. Nat. J. (2020) Lice (Phthiraptera) of Ireland. <https://maps.biodiversityireland.ie/Dataset/69>

Lampe, K.-H., Rohwedder, D., Ingrisch, S. and Rach, B. (2010) Insect types in the ZFMK collection, Bonn: Blattodea, Dermaptera, Heteroptera, "Homoptera", Hymenoptera, Mantodea, Orthoptera, Phasmatodea, Phth. and Siphonaptera. *Bonn Zoological Bulletin* **58**: 89-167. (*Myrsidea lyali*)

O'Connor, J. P. (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2005) *Philopterus fringillae* (Scopoli) (Phthirapt., Philopteridae) new to Ireland. *Entomologist's mon. Mag.* **141**: 232.

—— (2005) *Ricinus fringillae* DeGeer (Mallophaga: Amblycera) new to Ireland. *Ir. Nat. J.* **28**: 172.

—— (2009) *Philopterus modularis* (Denny, 1842) (Phthiraptera: Philopteridae) new to Ireland. *Ir. Nat. J.* **29** (2008): 131-132.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P., Sleeman, D. P. and Butler, F. T. (2005) A review of the Irish Anoplura (Insecta: Phthiraptera). *Ir. Nat. J.* **28**: 62-67.

O'Mahony, E. (1941) The louse *Haplopleura sciuricola* Ferr. (Siphunculata, Haematopinidae). *Entomologist's mon. Mag.* **77**: 140.

—— (1944) A note on some Irish Anoplura Siphunculata. *Entomologist's mon. Mag.* **80**: 5.

—— (1946) *Trichodectes vulpis*, Denny (Mallophaga) in Ireland. *Entomologist's mon. Mag.* **82**: 160.

O'Mahony, E. (1946) Records of Trichodectidae (Mallophaga). *Entomologist's mon. Mag.* **82**: 211.

—— (1946) Records of Anoplura. *Entomologist's mon. Mag.* **82**: 231.

—— (1948) *Rhabdopedilon longicorne* Nitzch and *Lutridia exilis* Nitzch (Mall., Trichodectidae) found in Ireland. *Entomologist's mon. Mag.* **84**: 264.

—— (1947) The mammal ecto-parasites of the North Bull Island, Dublin Bay. *Ir. Nat. J.* **9**: 78-79. (Anop., Siphon.)

Redgate, N. D. (1996) Amendments to the British checklist of *Menacanthus* Neumann, 1912 (Phthiraptera, Amblycera, Menoponidae), with particular reference to those species found on the Passeriformes (Aves). *Entomologist's mon. Mag.* **132**: 69-71.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Sleeman, D. P. (1979) Epifauna from some Ulster mamnals. *Bulletin of the Irish Biogeographical Society* **3**: 47-50. (Anop., Col., Mall.)

—— (1983) Parasites of deer in Ireland. *Journal of Life Sciences of the Royal Dublin Society* **4**: 203-237.

—— (1986) Insect ectoparasites of Irish grey squirrels (*Sciurus carolinensis* Gmelin). *Ir. Nat. J.* **22**: 117. (*Damalinia longicornis*)

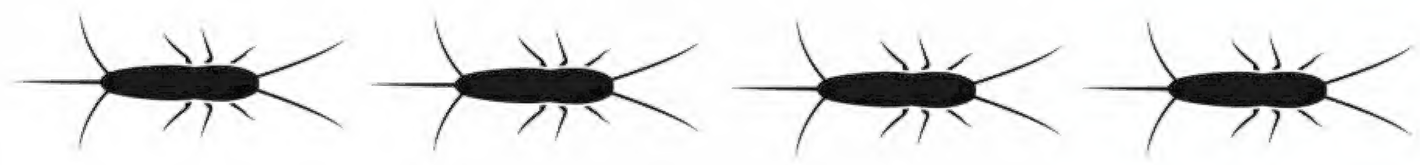
—— (1986) Ectoparasites from guts of deer and fox. *Entomologist's mon. Mag.* **122**: 30.

—— (1989) Ectoparasites of the Irish stoat. *Medical and Veterinary Entomology* **3**: 213-218. (*Trichodectes ermineae*, *Polyplax spinulosa* and *Mysidea picae*)

—— (1997) Records of lice (Phthiraptera) from stoats and badgers in Ireland. *Bulletin of the Irish Biogeographical Society* **20**: 100-102.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - a modern coastal natural history*. The Royal Dublin Society, Dublin.

Thompson, G. B. (1935) The parasites of British birds and mammals. IV. Records of mammal parasites. *E.M M.* **71**: 214-217. (further papers in General section)



CHAPTER 3. *DIPLURA, *MICROCORYPHIA, *PROTURA & *THYSANURA (*Archaeognatha & *Zygentoma)

Anon. (1918) (*Campodea* spp.). *Proceedings of the Belfast Naturalists' Field Club* **8**: 14.

Bagnall, R. S. (1918) Records and descriptions of some British Campodeidae. *Entomologist's mon. Mag.* **54**: 109-111.

Blackith, R. E. and Good, J. A. (1991) Protura in Ireland. *Bulletin of the Irish Biogeographical Society* **14**: 84-89.

Bolger, T. (1997) George Herbert Carpenter. Pp 1-3. *In* Bolger, T. (ed.) *Proceedings of IX International Colloquium on Apterygota, Dublin 1996. Pedobiologia* **41**: 1-224. (Thysanura)

Carpenter, G. H. (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895. Collembola and Thysanura. *I. Nat* **4**: 257.

—— (1902) Aptera. Pp 216-217. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1904) Irish Field Club Union. Report of the Fourth Triennial Conference and Excursion, held at Sligo, July 12th to 18th, 1904. 1. - General account. *Ir. Nat.* **13**: 173-181.

—— (1904) Irish Field Club Union. Sligo Conference. Aptera. *Ir. Nat.* **13**: 197-198.

—— (1905) (*Lepisma saccharina*). *Ir. Nat.* **14**: 262.

—— (1907) Contributions to the natural history of Lambay. Aptera. *Ir. Nat.* **16**: 54-56, 1 plate.

—— (1907) (*Proemachilis hibernica*). *Ir. Nat.* **16**: 154.

—— (1908) Aptera. Pp 173-176. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1910) Irish Field Club Union. Rosapenna Conference. Apterygota. *Ir. Nat.* **19**: 185.

—— (1911) New Irish Apterygota. *Ir. Nat.* **20**: 81-85, 6 figs.

—— (1912) Clare Island Survey. 32. Apterygota. *Proceedings of the Royal Irish Academy* **31**(32): 13pp. 1 plate.

—— (1913) (*Petrobius* n.sp.). *Ir. Nat.* **22**: 216.

—— (1913) The Irish species of *Petrobius*. *Ir. Nat.* **22**: 228-233, 2 pls.

—— (1917) Useful studies for Field Naturalists. *Ir. Nat.* **26**: 66-70.

Chesney, H. C. G. and Nash, R. (1997) Robert Templeton 1802-92. Pp 349-354. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin. (Thysanura)

Davies, L. (1990) Distribution and habitat requirements in Britain and Ireland of *Petrobius brevistylis* Carpenter and *P. maritimus* (Leach), with a new separating character (Archaeognatha: Machilidae). *Entomologist* **109**: 24-34. (Archaeognatha)

Delany, M. J. (1954) Thysanura and Diplura. *Handbooks for the Identification of British Insects* **1**(2): 1-7.

Galli, L., Capurro, M. and Torti, C. (2011) Protura of Italy, with a key to species and their distribution. *ZooKeys* **146**: 19-67. doi: 10.3897/zookeys.146.1885

Good, J. A., Blackith, R. E. and Higgins, D. G. (1989) *Campodea* Silvestri, a soil apterygote new to Ireland. *Ir. Nat. J.* **23**: 154. (Diplura)

Gough, H. J. and Waghorne, D. M. (1973) Four species of Protura new to the British Isles. *Entomologist's mon. Mag.* **108** (1972): 166.

Harding, P. T. (1981) A handlist of the papers of Denis R. Pack Beresford at the library of the Royal Irish Academy. *Ir. Nat. J.* **20**: 235-240. (Thysanura)

Healy, B. and McGrath, D. (1998) Marine fauna of County Wexford, Ireland: the fauna of rocky shores and sandy beaches. *Irish Fisheries Investigations New Series* **2**: 1-71. (Thysanura)

Higgins, D. G. (1983) A second Irish record of *Trigoniophthalmus alternatus* (Silvestri) (Thysanura). *Ir. Nat. J.* **21**: 186. (Thysanura)

Johnson, W. F. (1905) *Lepisma saccharina* at Portadown and Poyntzpass. *Ir. Nat.* **14**: 261.

Lubbock, J. (1873) *Monograph of the Collembola and Thysanura*. Printed for the Ray Society by J. E. Adlard, London.

Makings, P. (1959) *Trigoniophthalmus alternatus* (Silvestri, 1704) (Thysanura, Machilidae) new to the British Isles. *Entomologist's mon. Mag.* **95**: 153.

Mann, D. J., Steer, L., McCorkmack, D., Moore, A. and Pinniger, D. (2019) Lepismatidae. 2018 Annual Exhibition. *British Journal of Entomology and Natural History* **32**: 144-145. (includes *Ctenolepisma longicaudata*) (Zygen.)

McCormack, S. (2009) Subphylum Hexapoda Class Entognatha. p. 96. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Monteith, R. (2018) First record of the Grey Silverfish *Ctenolepisma longicaudata* Escherich, 1905, (Zygentoma: Lepismatidae) from Northern Ireland. *Entomologist's mon. Mag.* **154**: 308. (Zygen.)

Nosek, J. (1973) *The European Protura, their taxonomy, ecology and distribution, with keys for determination.* Muséum d'Histoire naturelle, Genève. 345 pp.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14. (Thysanura)

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44. (Thysanura)

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin. (Thysan.)

—— (2013) A second Irish record of *Dilta saxicola* (Womersley) (Microcoryphia: Machilidae). *Entomologist's mon. Mag.* **149**: 222.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp. (Thysanura)

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165. (Thysanura)

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115. (Thysanura)

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Stelfox, A. W. (1932) A foreign lepismid introduced in Dublin. *Ir. Nat. J.* **4**: 119.

Templeton, R. (1836) Thysanurae Hibernicae or descriptions of such species of spring-tailed insects (Podura and Lepisma Linn.) as have been observed in Ireland. *Transactions of the Entomological Society of London* **1**: 89-98, pls 11 & 12. (introduction by O. Westwood)

Tuxen, S. L. (1982) The Protura (Insecta) of Madeira. *Bocagiana* **No. 65**: 1-20. (*Acerentulus cunhai*)

CHAPTER 4. *COLEOPTERA & *STREPSIPTERA

Anon. (1841) (Swarms of *Melolontha vulgaris* in W. Ireland in 1631). *Annual Report of the Dublin Natural History Society* **3**: 10.

—— (1855) (*Corpophilus hemipterus*). *The Natural History Review (Proceedings of Societies)* **2**: 48.

—— (1857) Coleoptera. *Entomologist's Weekly Intelligence* **2**: 46-47, 167-168.

—— (1892) (*Caelambus quinquelineatus*). *Ir. Nat.* **1**: 128.

—— (1892) (Col. from White Park Bay). *Proceedings of the Belfast Naturalists' Field Club* **3**: 466.

—— (1892) (Col. from the Mourne Mts). *Proceedings of the Belfast Naturalists' Field Club* **3**: 474, 476.

—— (1893) (Col. from NE Ireland). *Proceedings of the Belfast Naturalists' Field Club* **4**: 25, 28, 29, 31.

—— (1894) (Col.) *Ir. Nat.* **3**: 182-184.

—— (1894) (Col. from Drogheda). *Ir. Nat.* **3**: 18l.

—— (1894) (Col. from the Laytown district). *Ir. Nat.* **3**: 181.

—— (1894) (Col. from Lucan). *Ir. Nat.* **3**: 222.

—— (1895) Dublin Naturalists' Field Club. *Ir. Nat.* **4**: 221-222.

—— (1895) (Rosechafer in Aran Is.). *Proceedings of the Belfast Naturalists' Field Club* **4**: 281.

—— (1896) (Col. from Brittas Bay). *Ir. Nat.* **5**: 266.

—— (1897) (Excursion to Ferns, Co. Wexford). *Ir. Nat.* **6**: 279.

—— (1898) (Col.). *Ir. Nat.* **7**: 57-58.

—— (1898) (*Rhagium bifasciatum*). *Ir. Nat.* **7**: 57.

—— (1900) (Col). *Ir. Nat.* **9**: 19-20.

—— (1901) (Col. at Sligo). *Ir. Nat.* **10**: 169.

—— (1902) (Col. at Maynooth). *Ir. Nat.* **11**: 252.

—— (1903) (Col). *Ir. Nat.* **12**: 208-209.

—— (1906) (Col. at Tanderagee). *Proceedings of the Belfast Naturalists' Field Club* **5**: 478.

—— (1909) (Col. at Monasterboice). *Proceedings of the Belfast Naturalists' Field Club* **6**: 251.

—— (1909) (Excursion to Brittas Bay, Co. Wicklow). *Ir. Nat.* **18**: 228.

—— (1910) (Col. at Parkmore). *Proceedings of the Belfast Naturalists' Field Club* **6**: 366.

—— (1910) (*Dendronectes griseo-striatus*). *Proceedings of the Belfast Naturalists' Field Club* **6**: 381.

—— (1910) (Col. at Lugnaquilla). *Ir. Nat.* **19**: 225.

Anon. (1912) (Col). *Proceedings of the Belfast Naturalists' Field Club* (N.S.) **6**: 596.

—— (1929) A.S.U. (Dublin), 1928-1929. *Ir. Nat. J.* **2**: 249. (group of naturalists who called themselves after an "Active Service Unit", a term used by the I.R.A. during the War of Independence. They went on rambles together. The members included A. W. Stelfox)

—— (1934) (Water-Beetles at Monlough). *Proceedings of the Belfast Naturalists' Field Club* **9**: 292.

—— (1949) *Acanthocinus aedilis* in Belfast. *Ir. Nat. J.* **9**: 275.

—— (1970) The Annual Exhibition - 1st November 1969. *Proceedings of the British Entomological and Natural History Society* **3**: 17-23. (p. 22 *Phytobius canaliculatus* in the Burren)

—— (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

—— (1983) Merritt marks. *The Balfour-Browne Club Newsletter* **No. 28**: 1. (Records of water beetles)

—— (1986) Ireland in July. *The Balfour-Browne Club Newsletter* **No. 38**: 4-5. (water beetles)

—— (1987) A key to British and Irish *Enochrus*. *The Balfour-Browne Club Newsletter* **No. 41**: 8-9.

—— (1990) Notes on water beetle recording. *The Balfour-Browne Club Newsletter* **No. 48**: 21-26. (*Gyrinus substriatus* Stephens, *G. natator* (L.))

—— (1992) Irish water beetles. *The Balfour-Browne Club Newsletter* **No. 50**: 10.

—— (1992) D. T. Bilton, Ph.D. *The Balfour-Browne Club Newsletter* **No. 50**: 19. (*Hydroporus glabriusculus* Aubé)

—— (2007) Royal Irish Academy. Praeger Fund for Field Natural History. *Ir. Nat. J.* **28** (2006): 335.

—— (2009) National Invasive Species Database. *Biodiversity Ireland* **Issue 4**: 21-22. (Harlequin Ladybird)

—— (2011) Alien update. World's most invasive ladybird found in Ireland. *Biodiversity Ireland* **Issue 7**: 21. (Harlequin Ladybird)

—— (2011) Meeting reports. 'Invasive insects: implications for plant health, animal health, public health and the environment'. *Antenna* **35**: 192. (beetle invasions, Harlequin Ladybird, Western Corn Rootworm)

—— (2016) Ireland's ladybirds - a spotter's guide. *Biodiversity Ireland* **Issue 13**: 10-13.

—— (2018) Ireland 8-11 June 2018. *Latissimus* **42**: 1-2. (Kerry, water beetles)

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54.

Alcock, N. H. and Moffat, C. B. (1901) The natural history of Irish bats. *Ir. Nat.* **10**: 241-251.

Aldridge, R. J. W. and Pope, R. D. (1986) The British species of *Bruchidius* Schilsky (Coleoptera: Bruchidae). *Entomologist's Gazette* **37**: 181-193.

Alexander, K. (1997) Some records for scarcer Curculionidae (Coleoptera). *Ir. Nat. J.* **25**: 449-451.

—— (1997) Some records for scarcer Scolytidae (Coleoptera). *Ir. Nat. J.* **25**: 451-452.

—— (1997) *Magdalis carbonaria* (L.) (Coleoptera: Curculionidae) rediscovered in Co Wicklow. *Ir. Nat. J.* **25**: 453.

Alexander, K. (2008) *Agathidium confusum* Brisout (Coleoptera: Leiodidae) a fungus beetle new to the Irish list. *Ir. Nat. J.* **29**: 45-46.

—— (2011) *Quedius lyszkowskii* Lott (Staphylinidae) in County Tyrone, Northern Ireland, and some comments on its conservation status. *The Coleopterist* **20**: 85-86.

Alexander, K. N. A. (1992) The Cantharoidea and Buprestoidea recording scheme. *The Coleopterist* **1**: 21-26.

—— (1994) *Miscodera arctica* (Paykull), *Notiophilus aesthuans* (Motschulsky) (Coleoptera: Carabidae) and *Pontania crassipes* (C. G. Thomson) (Hymenoptera: Tenthredinidae), insects new to Ireland from the summit of Slieve Donard, Co Down. *Ir. Nat. J.* **24**: 463-464.

—— (1993) Observations from an Irish mountain summit. *The Coleopterist* **2**: 42-44.

—— (1997) *Clytus arietis* (L.) rediscovered in Ireland after nearly 100 years, and other significant records of Cerambycidae (Coleoptera). *Ir. Nat. J.* **25**: 377-378.

—— (1997) The distribution and status of the genus *Orchesia* Latreille (Coleoptera: Melandryidae) in Ireland. *Ir. Nat. J.* **25**: 379-380.

—— (2002) The invertebrates of living and decaying timber in Britain and Ireland. A provisional annotated checklist. *English Nature Research Reports* **No. 467**. English Nature, Peterborough.

—— (2003) *Provisional atlas of the Cantharoidea and Buprestoidea (Coleoptera) of Britain and Ireland*. Biological Records Centre, Huntingdon.

—— (2003) The third Irish locality for *Lebia cruxminor* (L.) (Coleoptera: Carabidae) and its association with old fen meadow habitat. *Ir. Nat. J.* **27**: 306-308.

—— (2008) A second Irish locality for *Epuraea distincta* (Grimmer) (Nitidulidae) and comments on the mobility of other recently discovered species. *The Coleopterist* **17**: 140.

—— (2009) Records for some Irish pollen beetles of the genus *Meligethes* Stephens (Coleoptera: Nitidulidae). *Ir. Nat. J.* **30**: 62-63.

—— (2009) *Dorcatoma dresdensis* Herbst (Coleoptera: Anobiidae): a beetle new to the Irish list. *Ir. Nat. J.* **30**: 66.

—— (2010) The rediscovery of some of Ireland's rarest wood decay beetles (Coleoptera: Lymexylidae, Phloiophilidae, Ciidae, Tetratomidae, Melandryidae). *Ir. Nat. J.* **30** (2009): 130-133.

—— (2010) Ant beetle (*Thanasimus formicarius* (L.)) (Coleoptera: Cleridae), new to Co. Donegal. *Ir. Nat. J.* **30** (2009): 144.

—— (2011) The European Red List of Saproxylic Beetles - the status of species occurring in Britain and Ireland. *The Coleopterist* **20**: 55-61.

—— (2013) Some rare Irish wood-decay beetles discovered in St John's Wood, Co. Roscommon (Coleoptera: Staphylinidae: Pselaphinae and Scydmaenidae). *Ir. Nat. J.* **32**: 72.

—— (2013) A second confirmed Irish locality for *Dorcatoma dresdensis* Herbst (Coleoptera: Anobiidae). *Ir. Nat. J.* **33**: 68.

—— (2016) Correction. Mid-Cork (H4) should read East Cork (H5) in Alexander, K. N. A. (2009). *Ir. Nat. J.* **30**: 62-63. (Nitidulidae: *Meligethes*)

Alexander, K. N. A. and Anderson, R. (2012) The beetles of decaying wood in Ireland. A provisional annotated checklist of saproxylic Coleoptera. *Irish Wildlife Manuals* **No. 65**. National Parks and Wildlife Service, Department of the Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Alexander, K. N. A. and Foster, A. P. (1995) *Abdera flexuosa* (Paykull) (Melandryidae) and *Tetratoma fungorum* Fabricius (Tetratomidae), beetles new to Ireland from bracket fungi on old trees. *Ir. Nat. J.* **25**: 27-28.

Alexander, K. N. A. and Morris, M. G. (2011) *Acalyptus carpini* (Fabricius), a weevil new to Ireland (Curculionidae, Curculioninae). *The Coleopterist* **20**: 17-19.

Algeo, C. R. (1907) Some Coleoptera from the North. *Ir. Nat.* **16**: 181-182.

Allan, D. G. (1951) Distribution of certain water-beetles in Britain. *Bulletin of the Amateur Entomologists' Society* **10**: 42-43. (*Dytiscus marginalis*)

Allen, A. A. (1945) *Ceuthorrhynchus chalybaeus* Germ. (Col., Curculionidae) in Surrey, and its specific characters. *Entomologist's mon. Mag.* **81**: 58.

—— (1946) *Phytobius quadricornis* Gyll. and *P. murciatus* Bris. (Col., Curculionidae) in Herts. *Entomologist's mon. Mag.* **82**: 12.

—— (1954) The status of *Cryptophagus micaceus* Rey (Col., Cryptophagidae). *Entomologist's mon. Mag.* **90**: 17-18.

—— (1962) On the *Sitones lineelus* and *brevicollis* of Fowler *et al* (Col., Curculionidae); with further notes and records. *Entomologist's mon. Mag.* **98**: 10-12.

—— (1964) The Genus *Synchita* Hellw. (Col., Colydiidae) in Britain; with an addition to the fauna and a new synonymy. *Entomologist's mon. Mag.* **100**: 36-42.

—— (1964) The British range of *Trichius fasciatus* L.: a correction and a warning. *Entomologist's Rec. J. Var.* **76**: 144-145.

—— (1964) *Stenus oscillator* Rye (Col., Staphylinidae): an addendum. *Entomologist's mon. Mag.* **100**: 42.

—— (1965) *Sitona puberulus* Reitt (Col., Curculionidae) in Ireland and the Isle of Arran; and a comment on the British status of *S. cinerascens* Fabr. *Entomologist's mon. Mag.* **101**: 19.

—— (1965) *Necrodes littoralis* L. (Col., Silphidae) at *Cossus* exudations; with remarks on the present-day incidence of this and some allied species. *Entomologist's mon. Mag.* **101**: 51.

—— (1966) A note on *Hylecoetus dermestoides* (Lo. Cl., Lymexylidae), etc. *Entomologist's Rec. J. Var.* **78**: 79-80.

—— (1967) A review of the status of certain Scarabaeoidea (Col.) in the British fauna; with the addition to our list of *Onthophagus similis* Scriba. *Entomologist's Rec. J. Var.* **79**: 220-224.

—— (1968) Two additions to the British species of *Atomaria* Steph. (Col., Cryptophagidae), with notes on others of the genus in Britain. *Entomologist's Rec. J. Var.* **80**: 318-326.

—— (1969) Notes on some British Staphylinidae (Col.) 1 - The Genus *Scopaeus* Er., with the addition of *S. laevigatus* Gyll. to our list. *Entomologist's mon. Mag.* **104** (1968): 198-207.

Allen, A. A. (1969) *Cercyon laminatus* Sharp (Col., Hydrophilidae) new to Britain; with corrections to our list of species, and further notes. *Entomologist's Rec. J. Var.* **81**: 211-216.

—— (1969) Notes on some British serricorn Coleoptera, with adjustments to the list. 1 - Sternoxia. *Entomologist's mon. Mag.* **104** (1968): 208-216.

—— (1970) Revisional notes on the British species of *Orthoperus* Steph. (Col., Corylophidae). *Entomologist's Rec. J. Var.* **82**: 112-120.

—— (1971) British Coleoptera: Corrections and supplementary notes, including the addition of *Axinotarsus marginalis* Lap. (Melyridae) to our list. *Entomologist's Rec. J. Var.* **83**: 46-51.

—— (1971) New pselaphid (Col.) records for Ireland and Kent. *Entomologist's mon. Mag.* **107**: 29.

—— (1974) The apparent spread of three fenland beetles in the last thirty years. *Entomologist's mon. Mag.* **109** (1973): 113.

—— (1976) Records of, and notes on, some of the rarer *Hypocyphtus* spp. (Col., Staphylinidae). *Entomologist's mon. Mag.* **111** (1975): 191-192.

—— (1976) Notes on some British Chrysomelidae (Col.) including amendments and additions to the list. *Entomologist's Rec. J. Var.* **88**: 220-225, 294-299.

—— (1977) *Agonum gracilipes* Duft. (Col: Carabidae) in Sussex, and its deletion from the Irish list. *Entomologist's Rec. J. Var.* **89**: 343-344.

—— (1988) *Rhynchaenus calceatus* Germ. (Col., Curculionidae), an addition to the British list. *Entomologist's mon. Mag.* **124**: 147-148.

—— (1994) A further useful character for the separation of two species of *Ampedus* (Col., Elateridae). *Entomologist's mon. Mag.* **130**: 204.

—— (2002) *Dascillus cervinus* (L.) (Col.: Dascillidae) in the Isle of Man and the Burren, Co. Clare. *Entomologist's Rec. J. Var.* **114**: 22.

Allen, D. and Mellon, C. (2010) A new Irish site for *Lebia cruxminor* (Linnaeus) (Carabidae). *The Coleopterist* **19**: 31-32.

Allen, D., Woodrow, W., Mellon, C., Hughes, M. and Nelson, B. (2012) A selection of invertebrates closely associated with Marsh Fritillary *Euphydryas aurinia* (Rott.) habitat and Devil's-bit Scabious *Succisa pratensis* in Ireland. *Atropos* **46**: 48-55.

Anderson, A., Carnus, T., Helden, A. J., Sheridan, H. and Purvis, G. (2013) The influence of conservation field margins in intensively managed grazing land on communities of five arthropod trophic groups. *Insect Conservation and Diversity* **6**: 201-211.

Anderson, R. (1977) An interesting upper tidal crevice fauna, including *Aepus robinii* (Laboulbene), from Lighthouse Island, Belfast Lough. *Ir. Nat. J.* **19**: 94-95.

—— (1977) *Endomychus coccineus* (L.) (Coleoptera: Endomychidae) new to Ireland. *Ir. Nat. J.* **19**: 97.

—— (1978) *Stenus glacialis* Heer (Col., Staphylinidae) new to Ireland *Entomologist's mon. Mag.* **113** (1977): 156.

—— (1978) A recent Irish record of *Stenus exiguus* Erichson and *Sepedophilus littoreus* (L.) and *Gnypeta caerulea* (Sahlberg) (Col., Staphylinidae) new to Ireland. *Entomologist's mon. Mag.* **113** (1977): 167.

Anderson, R. (1979) The Coleoptera of a Lough Neagh sandy shoreline with recent records of *Stenus palposus* Zetterstedt (Staphylinidae) and *Dyschirius obscurus* Gyllenhal (Carabidae). *Ir. Nat. J.* **19**: 297-302.

—— (1979) *Stenus glacialis* Heer (Col., Staphylinidae) in West Donegal. *Entomologist's mon. Mag.* **114** (1978): 20.

—— (1979) *Stenus brevipennis* Thom. and *Geodromicus nigrita* (Mull.) (Col., Staphylinidae) new to Ireland. *Entomologist's mon. Mag.* **114** (1978): 52.

—— (1981) Coleoptera from the Burren, including *Acupalpus consputus* (Dufts.) and *Bembidion fumigatum* (Dufts.) (Carabidae) new to Ireland. *Entomologist's mon. Mag.* **116** (1980): 138.

—— (1982) *Trechus discus* (Fab.) (Coleoptera, Carabidae) in Co. Down. *Entomologist's mon. Mag.* **118**: 44.

—— (1982) *Deleaster dichrous* (Grav.) (Coleoptera, Staphylinidae) in Co. Down. *Entomologist's mon. Mag.* **118**: 25.

—— (1982) A second Irish record of *Stenus brevipennis* Thoms. (Coleoptera, Staphylinidae). *Entomologist's mon. Mag.* **118**: 225.

—— (1984) Some recent Irish records of *Euophryum confine* Broun (Col., Curculionidae). *Entomologist's mon. Mag.* **120**: 216.

—— (1984) Staphylinidae (Coleoptera) in Ireland-3: Steninae. *Ir. Nat. J.* **21**: 242-251.

—— (1985) *Amara fulva* (Muller) (Coleoptera, Carabidae) on Lough Neagh. *Ir. Nat. J.* **21**: 463.

—— (1985) A third Irish record of *Sepedophilus littoreus* (L.) (Coleoptera: Staphylinidae). *Ir. Nat. J.* **21**: 546.

—— (1985) *Agonum lugens* (Duftschmid) new to the British Isles (Col., Carabidae). *Entomologist's mon. Mag.* **121**: 133-135.

—— (1986) *Deleaster dichrous* (Grav.) (Col., Staphylinidae) associated with silo pits. *Entomologist's mon. Mag.* **122**: 184.

—— (1987) *Agonum micans* Nicolai (Coleoptera: Carabidae) re-found on Lough Neagh. *Ir. Nat. J.* **22**: 211.

—— (1987) Some uncommon Carabidae (Coleoptera) from south Dublin/Wicklow. *Ir. Nat. J.* **22**: 259-260.

—— (1987) Recent Irish records of *Stenus nigritulus* Gyll. and *S. opticus* Grav. (Col., Staphylinidae). *Entomologist's mon. Mag.* **123**: 224.

—— (1989) A third site for *Trechus rivularis* (Gyll.) (Coleoptera, Carabidae) in Ireland. *Entomologist's mon. Mag.* **125**: 4.

—— (1989) Haughey's Fort: analysis of an insect death assemblage. *Emania* **6**: 24-27. (records of species representing 17 families)

—— (1990) *Adalia bipunctata* (L.) (Coleoptera, Coccinellidae) in Northern Ireland. *Ir. Nat. J.* **23**: 282.

—— (1991) *Amara convexiuscula* (Marsham) (Carabidae) reinstated as Irish, and other Waterford Coleoptera. *Ir. Nat. J.* **23**: 505-506.

—— (1992) Recent occurrences of *Bembidion stephensi* Crotch (Coleoptera: Carabidae) in Ireland. *Ir. Nat. J.* **24**: 169.

Anderson, R. (1992) A second Irish site for *Endomychus coccineus* (L.) (Coleoptera: Endomychidae). *Ir. Nat. J.* **24**: 170.

—— (1992) Compost-heap Coleoptera new to Ireland. *Entomologist's Gazette* **43**: 162.

—— (1993) *Litargus connexus* (Fourcroy) (Coleoptera: Mycetophagidae) new to Ireland. *Entomologist's Gazette* **44**: 100.

—— (1993) Rufinism in Irish *Pterostichus nigrita* (Paykull) (Col., Carabidae). *Entomologist's mon. Mag.* **129**: 122.

—— (1994) *Oligota parva* Kraatz (Col., Staphylinidae), an addition to the Irish list. *Entomologist's mon. Mag.* **130**: 54.

—— (1994) A first Irish record of *Ptinus subpilosus* Sturm (Col., Ptinidae). *Entomologist's mon. Mag.* **130**: 136.

—— (1995) *Dacne bipustulata* (Thunberg) (Coleoptera: Erotylidae) in the Lagan Valley, Belfast. *Ir. Nat. J.* **25**: 78.

—— (1995) *Cneorhinus plumbeus* (Marsham) (Coleoptera: Curculionidae) confirmed as Irish. *Ir. Nat. J.* **25**: 79.

—— (1996) Late summer emergence of *Agonum lugens* (Duftschmid) (Carabidae) in the Burren, Ireland. *The Coleopterist* **4**: 87.

—— (1997) Species Inventory for Northern Ireland: carabid beetles (Coleoptera: Carabidae). *Environment and Heritage Service Research and Development Series* **No. 97/3**.

—— (1997) Species Inventory for Northern Ireland: Rove beetles (Coleoptera: Staphylinidae). *Environment and Heritage Service Research and Development Series* **No. 97/11**.

—— (1997) A second Irish locality for *Agonum livens* (Gyllenhal) (Carabidae). *The Coleopterist* **5**: 76.

—— (1997) Species Inventory for Northern Ireland: Carabid beetles. *Environment and Heritage Service Research and Development Series* **No. 97/3**.

—— (1998) *Polydrusus pilosus* Gredler (Curculionidae) in Northern Ireland. *The Coleopterist* **7**: 91.

—— (1998) A recent Irish record of *Gymnetron pascuorum* (Gyllenhal) (Curculionidae). *The Coleopterist* **7**: 91.

—— (1999) Second Irish sites for *Abdera flexuosa* (Paykull) and *Enicmus testaceus* Joy and Tomlin (Coleoptera: Melandryidae and Latridiidae) in Fermanagh. *Ir. Nat. J.* **26** (1998): 56.

—— (1999) *Calathus cinctus* Motschulsky (Col., Carabidae) on the north coast of Ireland. *Entomologist's mon. Mag.* **135**: 38.

—— (2000) *Philhygra fallaciosa* (Sharp) (Staphylinidae) new to Ireland. *The Coleopterist* **9**: 43-44.

—— (2000) The biogeography of Irish ground-beetles. Pp 27-37. *In* Anderson, R., McFerran, D. M. and Cameron, A. (eds) *The ground beetles of Northern Ireland (Coleoptera-Carabidae). Atlases of the Northern Ireland Flora and Fauna* **1**. Ulster Museum Publication **No. 279**, Belfast.

—— (2001) A recent Irish record of *Siagonium quadricorne* Kirby (Staphylinidae). *The Coleopterist* **10**: 59.

Anderson, R. (2002) The *rufifemoratus* trait found in Irish *Pterostichus rhaeticus* Heer. *The Coleopterist* **11**: 73-74.

—— (2002) *Bembidion andreae* (Fab.) (Coleoptera: Carabidae) recorded from Co Londonderry. *Ir. Nat. J.* **27**: 122.

—— (2003) A recent record of *Calathus erratus* (Sahlberg) (Coleoptera: Carabidae) from Co Dublin. *Ir. Nat. J.* **27**: 278.

—— (2004) *Micrambe bimaculata* (Panzer) (Cryptophagidae) on Lough Neagh, an ecological puzzle. *The Coleopterist* **13**: 135-136.

—— (2004) A recent Irish record of *Oxypoda tirolensis* Gredler (Staphylinidae). *The Coleopterist* **13**: 166-167.

—— (2005) Insects on oak in Northern Ireland: *Andricus quercusramuli* (L.) (Hymenoptera: Cynipidae) and *Scymnus auritus* Thunberg (Coleoptera: Coccinellidae). *Ir. Nat. J.* **28**: 133-134.

—— (2006) New sites for *Cryptocephalus pusillus* Fabricius (Chrysomelidae) in Ireland. *The Coleopterist* **15**: 19.

—— (2006) Additional Irish sites for *Tetratoma fungorum* Fabricius (Coleoptera: Tetratomidae). *Ir. Nat. J.* **28**: 302.

—— (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337. (includes Strept.)

—— (2007) *Mycetophagus multipunctatus* Fabricius (Mycetophagidae) new to Ireland. *The Coleopterist* **16**: 100.

—— (2007) *Platystethus cornutus* (Gravenhorst) (Staphylinidae) confirmed as Irish with two recent finds. *The Coleopterist* **16**: 129.

—— (2007) *Epuraea distincta* (Grimmer) (Nitidulidae) new to Ireland. *The Coleopterist* **16**: 130.

—— (2007) *Malvapion malvae* (Fabricius) (Apionidae) new to Ireland, in Co. Dublin. *The Coleopterist* **16**: 146.

—— (2008) Insect and invertebrate review 2006-2007. *Ir. Nat. J.* **29**: 66-69. (includes Strept.)

—— (2008) *Byrrhus arietinus* Steffahny new to Ireland with a note on the differentiation of females of *B. arietinus* and *B. fasciatus* (Forster) (Byrrhidae). *The Coleopterist* **17**: 5-8.

—— (2008) *Prionocyphon serricornis* (Müller) (Scirtidae) in Northern Ireland. *The Coleopterist* **17**: 121-123.

—— (2008) Terrestrial invertebrates. *Biodiversity Ireland* **Issue 1**: 9-11. (includes Strept.)

—— (2009) A recent Irish record of *Helophorus nubilus* Fabricius (Coleoptera: Helophoridae). *Ir. Nat. J.* **30**: 67-68.

—— (2009) A second Irish site for *Leistus rufomarginatus* (Duftschmid) (Coleoptera: Carabidae), at Binevenagh, Co. Londonderry. *Ir. Nat. J.* **30**: 68.

—— (2009) *Sphaeriestes reyi* (Abeille) and *Sphaeriestes ater* (Paykull) (Salpingidae) confirmed as Irish. *The Coleopterist* **18**: 80.

—— (2009) *Margarinotus merdarius* (Hoffmann) (Histeridae) found in Ireland. *The Coleopterist* **18**: 66.

—— (2009) *Autalia longicornis* Scheerpeltz (Staphylinidae) new to Ireland. *The Coleopterist* **18**: 165.

Anderson, R. (2009) Ireland's invertebrates - new finds in 2008. *Biodiversity Ireland* **Issue 3**: 9-10.

—— (2009) *Polydrusus pulchellus* Stephens (Coleoptera: Curculionidae) in Carlingford Lough, Co. Down. *Ir. Nat. J.* **29** (2008): 132.

—— (2009) The minotaur beetle (*Typhaeus typhoeus* L.) (Coleoptera: Geotrupidae) in the eastern Mournes, Co. Down. *Ir. Nat. J.* **29** (2008): 132-133.

—— (2009) New records for *Siagonium quadricorne* Kirby and *Atheta fungicola* (Thomson) and *Atheta crassicornis* (Fab.) (Coleoptera:Staphylinidae) added to the Irish list. *Ir. Nat. J.* **29** (2008): 133.

—— (2010) *Leptusa ruficollis* (Erichson) (Staphylinidae) new to Ireland. *The Coleopterist* **19**: 114.

—— (2010) *Autalia puncticollis* Sharp and *Oxypoda nigricornis* Motschulsky (Staphylinidae) new to Ireland. *The Coleopterist* **19**: 83.

—— (2010) A note on the spread of *Stenus palustris* Erichson (Staphylinidae) in Ireland. *The Coleopterist* **19**: 30.

—— (2010) Land and freshwater invertebrates. *Biodiversity Ireland* **Issue 5**: 11-12. (*Ochthebius nilssoni*)

—— (2011) The status of *Bessobia fungivora* (Thomson) (Staphylinidae: Aleocharinae) in Ireland. *The Coleopterist* **20**: 44.

—— (2011) *Metoecus paradoxus* (L.) (Coleoptera: Rhipiphoridae) in a Belfast park. *Ir. Nat. J.* **31** (2010): 137-138.

—— (2011) *Eutheia scydmaenoides* Stephens (Scydmaenidae) new to Ireland and *Carpelimus bilineatus* Stephens (Staphylinidae) confirmed as an Irish species. *The Coleopterist* **20**: 109.

—— (2012) *Autalia puncticollis* Sharp and *Oxypoda nigricornis* Motschulsky (Staphylinidae) new to Ireland. *The Coleopterist* **21**: 15.

—— (2012) *Xylostiba monilicornis* (Gyllenhal) (Staphylinidae) new to Ireland. *The Coleopterist* **21**: 93.

—— (2012) *Phaedon concinnus* Stephens (Chrysomelidae) in Ireland. *The Coleopterist* **21**: 125.

—— (2012) *Microdota boreella* (Brundin) (Staphylinidae) new to Ireland. *The Coleopterist* **21**: 146.

—— (2013) At last, an Irish male of *Stenus aceris* Stephens (Staphylinidae). *The Coleopterist* **22**: 76.

—— (2013) *Carpelimus zealandicus* (Sharp) (Staphylinidae) new to Ireland with an observation on feeding habits. *The Coleopterist* **22**: 114.

—— (2014) *Scleron armatum* (Waltl) a south European tenebrionid found at a wildlife refuge in Co. Antrim. *The Coleopterist* **23**: 32-33.

—— (2014) A first record of *Microdota liliputana* (Brisout) (Staphylinidae) for Northern Ireland. *The Coleopterist* **23**: 137.

—— (2014) *Proteinus crenulatus* Pandellé (Staphylinidae) new to Ireland with a comment on separation from other *Proteinus*. *The Coleopterist* **23**: 149.

—— (2017) Forest Cockchafer (*Melolontha hippocastani* Fabricius) (Coleoptera: Scarabaeidae) coming to light in north Antrim. *Ir. Nat. J.* **35**: 131-132.

Anderson, R. (2012) Biodiversity tales. Beetles. *Biodiversity Ireland* **Issue 9**: 12-13.

—— (2019) *Dacrila fallax* (Kraatz) (Staphylinidae) new to Northern *Ireland The Coleopterist* **28**: 136.

—— (2020) Ladybirds of Ireland - dedicated to the study and recording of Irish ladybirds. CEDaR - Online Resources. <http://www.habitas.org.uk/ladybirds/>

Anderson, R. and Allen, D. (2019) The Maize Weevil (*Sitophilus zeamais* Motschulsky) (Coleoptera: Curculionidae) new to Ireland, outdoors in Co. Fermanagh. *Ir. Nat. J.* **36**: 147-148.

Anderson, R. and Bell, A. C. (2002) A first record of the lily beetle *Lilioceris lilii* (Scopoli) in Ireland (Chrysomelidae: Criocerinae). *The Coleopterist* **11**: 90.

Anderson, R. and Bryan, M. (2009) *Batenus livens* (Gyllenhal) (Carabidae) found in north-east Ireland. *The Coleopterist* **18**: 164-165.

—— (2011) *Adota maritima* (Mannerheim) (Staphylinidae) new to Ireland from Counties Down and Antrim. *The Coleopterist* **20**: 98.

—— (2019) A second Irish record of *Aleochara ruficornis* Gravenhorst (Coleoptera: Staphylinidae). *Ir. Nat. J.* **36**: 153.

Anderson, R. and Bryan, M. D. (2012) Confirmation of *Aleochara* (*Xenochara*) *diversa* (J.R. Sahlberg) (= *kamila* Likovský) (Staphylinidae) as an Irish species, and removal of *Aleochara moesta* Gravenhorst from the Irish list. *The Coleopterist* **21**: 58-59.

—— (2012) *Pseudomedon obsoletus* (Nordmann) (Staphylinidae) in Northern Ireland. *The Coleopterist* **21**: 140.

—— (2012) *Trichiusa immigrata* Lohse (Staphylinidae) in Ireland. *The Coleopterist* **21**: 94.

—— (2013) *Bisnius subuliformis* (Gravenhorst) and *Quedius nigrocaeruleus* Fauvel (Staphylinidae) new to Ireland, from bird boxes. *The Coleopterist* **22**: 116.

—— (2014) *Platyderus depressus* (Audinet-Serville) and *Trechus subnotatus* Dejean (Carabidae) re-found in Ireland. *The Coleopterist* **23**: 10.

—— (2014) *Bisnius parcus* (Sharp) (Staphylinidae) new to Ireland. *The Coleopterist* **23**: 132.

Anderson, R. and Cameron, A. (1992) *Trechus rivularis* (Gyllenhal) (Coleoptera: Carabidae) in Cos Tyrone and Fermanagh. *Ir. Nat. J.* **24**: 168.

Anderson, R. and Clawson, S. (2004) *Leptusa norvegica* Strand (Staphylinidae) in Ireland. *The Coleopterist* **13**: 161.

—— (2004) *Anthrenus sarnicus* Mroczkowski (Dermestidae) new to Ireland. *The Coleopterist* **15**: 122.

—— (2006) *Atomaria pulchra* Erichson (Cryptophagidae) new to Ireland. *The Coleopterist* **15**: 100-101.

Anderson, R. and Foster, A. P. (2011) *Atheta paracrassicornis* Brundin new to Ireland (Staphylinidae: Aleocharinae). *The Coleopterist* **20**: 75-76.

Anderson, R., Hodge, P. and Bryan, M. (2010) *Paraphotistus nigricornis* (Panzer) (Elateridae) new to Ireland. *The Coleopterist* **19**: 64.

Anderson, R. and Humphreys, I. (2006) *Leistus rufomarginatus* (Duftschmid) (Carabidae) new to Ireland. *The Coleopterist* **15**: 133.

Anderson, R., Long, M. P. and Brophy, J. T. (2013) Observations on the status of *Hippodamia tredecimpunctata* (Linnaeus) (Coccinellidae) in Ireland, with three new records. *The Coleopterist* **22**: 75-76.

Anderson, R. and Luff, M. L. (1994) *Calathus cinctus* Motschulsky, a species of the *Calathus melanocephalus/mollis* complex (Col., Carabidae) in the British Isles. *Entomologist's mon. Mag.* **130**: 131-135.

Anderson, R. and Mantell, A. (2018) *Aleochara ruficornis* Gravenhorst (Staphylinidae) new to Ireland. *The Coleopterist* **27**: 47.

—— (2019) *Tachyura parvula* (Dejean) (Carabidae) new to Ireland, from Lough Neagh. *The Coleopterist* **28**: 162.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Anderson, R. and McCormack, S. (2009) An unusual abundance of *Badister* subg. *Baudia* Ragusa (Carabidae) in Co. Waterford, Ireland. *The Coleopterist* **18**: 163.

Anderson, R., McFerran, D. and Cameron, A. (2000) *The ground beetles of Northern Ireland (Coleoptera-Carabidae). Atlases of the Northern Ireland Flora and Fauna* **1**. Ulster Museum Publication **No. 279**, Belfast.

Anderson, R. and McFerran, D. M. (1996) *Miscodera arctica* (Paykull) (Coleoptera: Carabidae) in east Antrim, a second Irish record. *Ir. Nat. J.* **25**: 189-190.

Anderson, R., McFerran, D. M. and Cameron, A. (1995) A recent Irish record of *Cymindis vaporatiorum* (L.) (Coleoptera: Carabidae) in Rathlin ESA, Co Antrim. *Ir. Nat. J.* **25**: 116.

Anderson, R. and Murray, T. (2011) *Calathus ambiguus* (Paykull) (Coleoptera: Carabidae) new to Ireland, from Co. Wexford. *Ir. Nat. J.* **31** (2010): 57-58.

Anderson, R., Nash, R. and O'Connor, J. P. (1997) Irish Coleoptera. A revised and annotated list. *Ir. Nat. J. Special Entomological Supplement* 1997. 81pp.

—— (2005) Checklist of Irish Coleoptera. InvertebrateIreland Online, Ulster Museum, Belfast and National Museum of Ireland, Dublin.

Anderson, R. and Power, B. (2013) The Harlequin Ladybird (*Harmonia axyridis* (Pallas)) (Coleoptera: Coccinellidae) established out of doors in Co. Carlow. *Ir. Nat. J.* **33**: 67.

Angus, R. B. (1977) A re-evaluation of the taxonomy and distribution of some European species of *Hydrochus* Leach (Col. Hydrophilidae). *Entomologist's mon. Mag.* **112** (1976): 177-201.

—— (1986) Revision of the Palaearctic species of the *Helophorus minutus* group (Coleoptera: Hydrophilidae), with chromosome analysis and hybridization experiments. *Systematic Entomology* **11**: 133-163. (*H. fulgidicollis* Motschulsky)

—— (2008) Further karyosystematic investigation of the *Stictotarsus griseostriatus* (De Geer) group of sibling species (Coleoptera: Dytiscidae). *Comparative Cytogenetics* **2**: 151-156.

Angus, R. B. and Carr, R. (1982) *Gyrinus natator* (Linnaeus) and *G. substriatus* Stephens (Coleoptera: Gyrinidae) as British species. *Entomologist's Gazette* **33**: 223-229.

Anlaş, S. and Çevik, I. E. (2008) Faunistic studies on Paederinae (Coleoptera: Staphylinidae) in Manisa province, Turkey. *Munis Entomology & Zoology* **3**: 665-674.

Ashe, P., Cahalane, G. and O'Connor, J. P. (2002) Chinese beetles (Coleoptera) imported into Ireland. *Ir. Nat. J.* **27**: 140-142.

Ashe, P. and O'Connor, J. P. (1996) A first record of *Anthrenus* (*Helocrus*) *fuscus* Olivier (Col., Dermestidae) from Ireland. *Entomologist's mon. Mag.* **132**: 290.

—— (1999) An indoor record of *Metoecus paradoxus* (L.) (Col., Rhipiphoridae) in Ireland. *Entomologist's mon. Mag.* **135**: 102.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **3**: 1-80.

Assing, V. (2001) A revision of *Callicerus* Gravenhorst, 1802, *Pseudosemiris* Machulka, 1935, and *Saphocallus* Sharp, 1888. *Beiträge zur Entomologie* **51**: 247-334.

Aubrook, E. W. (1949) Occurrences of *Metophthalmus serripennis* Broun (Col., Lathridiidae). *Entomologist's mon. Mag.* **85**: 132.

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10.

Baars, J.-R. and Caffrey, J. M. (2010) The frond-feeding weevil (*Stenopelmus rufinasus* Gyllenhal) (Coleoptera: Erirhinidae) a natural enemy of *Azolla filiculoides* Lam. in Ireland. *Ir. Nat. J.* **30** (2009): 142-143.

Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248.

Baker, G. H. (1981) Notes on the ecology of the beetle *Dascillus cervinus* (Coleoptera: Dascillidae). *Ir. Nat. J.* **20**: 336-338.

Balfour Browne Club (2020) Water Beetles of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/58>

Balfour Browne, F. (1907) Irish Field Club Union. Cork Conference. Aquatic Coleoptera. *Ir. Nat.* **16**: 294-301.

—— (1908) On the British species of the Genus *Philydrus*, Solier. *Entomologist's Rec. J. Var.* **20**: 25-29.

—— (1909) The life-history of the water-beetle. *Proceedings of the Belfast Naturalists' Field Club* **6**: 189-191.

—— (1910) Irish Field Club Union. Rosapenna Conference. The aquatic Coleoptera of West Donegal. *Ir. Nat.* **19**: 180-184.

—— (1911) A new British *Haliplus*. *Entomologist's mon. Mag.* **37**: 153.

—— (1911) (*Dytiscus circumcinctus* at Drumlane and Moira). *Proceedings of the Belfast Naturalists' Field Club* **6**: 519.

—— (1911) The fauna of caves. *Proceedings of the Belfast Naturalists' Field Club* **6**: 519.

—— (1912) The aquatic Coleoptera of the South-East of Ireland. *Ir. Nat.* **21**: 1-16. (correction)

—— (1912) Clare Island Survey. 29. Aquatic Coleoptera. *Proceedings of the Royal Irish Academy* **31**(29): 20 pp.

—— (1931) The aquatic Coleoptera of the Isle of Wight. *Entomologist's mon. Mag.* **67**: 1-10.

—— (1932) The aquatic Coleoptera of the Scilly Islands, with some remarks upon the Genus *Philhydrus* and upon 'composite Species'. *Entomologist's mon. Mag.* **68**: 89-104.

—— (1933) The aquatic Coleoptera of the Channel Islands. *Entomologist's mon. Mag.* **69**: 67-77.

Balfour Browne, F. (1934) The aquatic Coleoptera of North and South Kerry. *Entomologist's mon. Mag.* **70**: 28-37.

—— (1934-1936) Systematic notes upon British aquatic Coleoptera. *Entomologist's mon. Mag.* **70**: 127-132. **71**: 7-14, 246-249. **72**: 28-31.

—— (1940-1958) *British Water Beetles*. 3 volumes. Ray Society, London.

—— (1942) The aquatic Coleoptera of East and West Sussex. *Entomologist's mon. Mag.* **78**: 18-28.

—— (1943) The distribution of *Agabus chalconatus* Panzer and var. *melanocornis* Zimm. (Col. Dytiscidae) in the British Isles. *Entomologist's mon. Mag.* **79**: 124-125.

—— (1947) The British species of *Noterus* (Col. Dytiscidae) and the problem of changing range of species in Britain. *Entomologist's mon. Mag.* **83**: 24-28.

—— (1951) Additions to the list of the aquatic Coleoptera of Ireland. *Entomologist's mon. Mag.* **87**: 260- 264.

—— (1951) The aquatic Coleoptera of Ireland with some remarks on the causes of their distribution. *Entomologist's Gazette* **2**: 1-52.

—— (1952) The aquatic Coleoptera of South Hampshire, with some remarks on the composition of the fauna and its origin. *Entomologist's Gazette* **3**: 127-160.

—— (1952) On the specific characteristics of *Ilybius guttiger* Gyll. and *I. aenescens* Thoms. (Col., Dytiscidae). *Entomologist's mon. Mag.* **88**: 202-205.

—— (1953) The aquatic Coleoptera of the Western Scottish Isles with a discussion on their sources of origin and means of arrival. *Entomologist's Gazette* **4**: 79-127.

—— (1953) Coleoptera (Hydradephaga). *Handbooks for the Identification of British Insects* **4**(3): 1-33.

—— (1960) The aquatic Coleoptera of Scotland and their routes of arrival. *Entomologist's Gazette* **11**: 69-106.

Ball, R. (1854) (Glowworm *Lampyris noctiluca*). *The Natural History Review* **1**: 91.

Ball, R. and Kinahan, J. R. (1854) (Cockchaffer *Melolontha vulgaris*). *The Natural History Review* **1**: 91.

Bannon, E. and Purvis, G. (1993) Pests and diseases of agricultural crops. Pp 17-30. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Barlee, J. S. (1937) The water-beetle, *Acilius sulcatus*, in Co. Dublin. *Ir. Nat. J.* **6**: 253.

Barrett, C. J. (1942) New records of Coleoptera from Offaly (King's Co.). *Entomologist's mon. Mag.* **78**: 42-43.

Beare, T. Hudson (1901) Coleopterous notes for the Autumn of 1900. *Entomologist's Rec. J. Var.* **13**: 328-329.

—— (1903) Retrospect of a Coleopterist for 1902. *Entomologist's Rec. J. Var.* **15**: 1-5, 34-35.

—— (1905) Coleoptera at Lough Neagh and Portrush. *Ir. Nat.* **14**: 30-32.

—— (1929) *Coccinella decimiguttata* L. *Entomologist's mon. Mag.* **65**: 40.

—— (1929) *Hydrothassa marginella* L., v. *devillei* Bullock. *Entomologist's mon. Mag.* **65**: 40.



Becerra-Jurado, G., Foster, G., Harrington, R. and Kelly-Quinn, M. (2014) Integrated constructed wetlands: hotspots for freshwater coleopteran diversity in the landscape of Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 271-279.

Beeson, J. and Beeson, M. (1993) The Cruttwell beetle collection at Peterborough Museum. *The Coleopterist* **2**: 28. (Killarney specimens)

Behan, M. and Ryan, M. F. (1977) Ultrastructure of the antennal sensory receptors of *Tribolium* larvae (Coleoptera: Tenebrionidae). *International Journal of Insect Morphology and Embryology* **7**: 221-236.

Beirne, B. P. (1946) Notes on the biology of some hymenopterous parasites of the Beech Weevil (*Rhynchaenus fagi* L.) (Col.). *Proceedings of the Royal Entomological Society of London A* **21**: 7-11.

—— (1953) Some comments on Professor F. Balfour-Browne's paper on the aquatic Coleoptera of the Western Scottish Islands. *Entomologist's Gazette* **4**: 167-168.

Benham, B. R. and Muggleton, J. (1970) Studies on the ecology of *Coccinella undecimpunctata* Linn. (Col. Coccinellidae). *Entomologist* **103**: 153-170.

—— (1976) Coccinellidae distribution maps scheme, progress report April 1975. *Entomologist's Gazette* **27**: 269-273.

Bennis, E. H. (1919) *Carabus clathratus* in Co. Clare. *Ir. Nat.* **28**: 91.

Bergsten, J. and Miller, K. B. (2006) Taxonomic revision of the Holarctic diving beetle genus *Acilius* Leach (Coleoptera: Dytiscidae). *Systematic Entomology* **31**: 145-197.

Berthelemy, C. and Olmi, M. (1978) Dryopoidea. Pp 315-318. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Bewley, F. (1858) Duplicate Coleoptera. *Entomologist's Weekly Intelligence* **4**: 86.

Bilton, D. (1986) Three Irish trips. Central Ireland and the Burren. *The Balfour-Browne Club Newsletter* **No. 38**: 1-2. (Water beetles)

—— (1994) The flight apparatus and flying ability of *Hydroporus glabriusculus* (Coleoptera, Dytiscidae), with a brief review of structural modifications in flightless beetles. *Entomologisk tidskrift* **115**: 23-32.

—— (1999) *Hydroporus glabriusculus* Aubé - a review of recent studies. *Latissimus* **No. 11**: 33-34.

Bilton, D. T. (1988) A survey of aquatic Coleoptera in central Ireland and the Burren. *Bulletin of the Irish Biogeographical Society* **11**: 77-94.

—— (1992) Genetic population structure of the Postglacial diving beetle *Hydroporus glabriusculus* Aubé (Coleoptera: Dytiscidae). *Heredity* **69**: 503-511.

—— (1993) A morphometric study of the diving beetle *Hydroporus glabriusculus* (Coleoptera, Dytiscidae) in Western Europe, including a comparison of morphological and genetic divergence patterns. *Zoologischer Anzeiger* **231**: 111-124.

—— (1993) The distribution and ecology of *Hydroporus glabriusculus* Aubé, 1836 (Col., Dytiscidae), with particular reference to the British Isles and its status as a relict species. *Entomologist's mon. Mag.* **129**: 207-220.

—— (1994) Phylogeography and recent historical biogeography of *Hydroporus glabriusculus* Aubé (Coleoptera: Dytiscidae) in the British Isles and Scandinavia. *Biological Journal of the Linnaean Society* **51**: 293-307.

Bilton, D. T., Bratton, J. H., McCormack, S. and Foster, G. N. (2009) *Ochthebius poweri* Rye (Hydraenidae) in Britain and Ireland. *The Coleopterist* **18**: 91-110.

Bilton, D. T. and Lott, D. A. (1991) Further records of aquatic Coleoptera from Ireland. *Ir. Nat. J.* **10**: 389-397.

Birchall, E. (1867) Irish insect-hunting grounds. III. Killarney. *Entomologist* **3**: 249-255.

—— (1876) Coleoptera in the Isle of Man. *Entomologist's mon. Mag.* **13**: 65.

Blackburn, T. (1876) Four species of *Helophorus* new to Britain. *Entomologist's mon. Mag.* **13**: 39-40.

Blackith, R. and Blackith R. (1978) A new host for *Perilitus coccinellae* (Hymenoptera: Braconidae). *Ir. Nat. J.* **19**: 164-165.

—— (1986) *Pygostolus sticticus* Fab. (Hymenoptera: Braconidae) parasitic on *Otiorhynchus singularis* (L.) (Coleoptera: Curculionidae) in an Irish pine forest. *Ir. Nat. J.* **22**: 69-71.

Blackith, R. E. (1973) A parasite of ladybirds in Ireland. *Ir. Nat. J.* **17**: 420-421.

Blackith, R. M., Blackith, R. E. and Speight, M. C. D. (1988) Studies on the Murrough, Co. Wicklow, Ireland: 3. Carrion beetles (Coleoptera). *Bulletin of the Irish Biogeographical Society* **11**: 28-34.

Blackshaw, R. P. (1996) Importance of overwintering adults to summer oviposition in Northern Ireland. Pp 36-40. *In* Alford, D. V. and Backhaus, G. F. (eds) *Second International Workshop on Vine Weevil (*Otiorhynchus sulcatus *Fabr.) (Coleoptera: Curculionidae). Mitteilungen aus der Biologischen Bundesanalt für Land-und Forstwirtschaft* **316**.

Blair, K. G. (1923) Some coleopterous remains from the peat-bed at Wolvercote, Oxfordshire. *Transactions of the Entomological Society of London* **1923**: 558-563.

—— (1932) *Staphylinus aeneocephalus* De G. and *S. cupreus* Rossi in Britain. *Entomologist's mon. Mag.* **68**: 278.

—— (1937) Changes in the insect population of Britain during the last 100 years. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1937-38**: 61-67.

—— (1938) The British species of *Acritus* Lec. (Col. Histeridae). *Entomologist's mon. Mag.* **74**: 53-54.

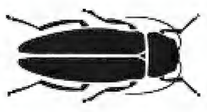
—— (1941) (Note on *Syagrius intrudens*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1941-42**: 10.

Blenkarn, S. (1912) (Exhibited *Haliplus wehnckei*). *Proceedings of the South London Entomological and Natural History Society* **1912-1913**: 99.

—— (1921) (Exhibited *Pentarthrum huttoni*). *Proceedings of the South London Entomological and Natural History Society* **1921-22**: 70. (Killarney)

—— (1924) (Exhibited *Carabus arvensis*). *Proceedings of the South London Entomological and Natural History Society* **1924-25**: 97. (Killarney)

Boland, R. and Bolger, T. (2014) What Ireland's soil macroinvertebrate fauna can tell us about postglacial colonisation. Pp 100-106. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Col.: Carabidae)



Bolger, T. (2002) Examining the effects of land-use, particularly afforestation, on biodiversity. Pp 23-28. *In* MacLennan, L. (ed.) *Opportunities for biodiversity enhancement in plantation forests*. Proceedings of the COFORD seminar, 24 October 2002, Cork.

Bolger, T., Coll, M. and Anderson, R. (2013) The arrival of *Leistus rufomarginatus* (Duftschmid, 1812) (Coleoptera: Carabidae) in Ireland earlier than previously recorded. *Ir. Nat. J.* **32**: 151.

Bonaparte-Wyse, L. H. (1911) Coleoptera from South Kerry. *Ir. Nat.* **20**: 55.

—— (1913) *Rhantus exoletus* in County Mayo. *Ir. Nat.* **22**: 41.

—— (1916) *Harpalus quadripunctatus*, Dej., in Co. Wicklow. *Ir. Nat.* **25**: 16.

—— (1916) New beetle records for Co. Waterford. *Ir. Nat.* **25**: 63.

Bond, K. G. M. and Ryan, S. (1993) A further Irish montane record of *Stenus glacialis* Heer (Coleoptera: Staphylinidae). *Ir. Nat. J.* **24**: 338.

Booth, R. (2001) Coleoptera. 2000 Annual Exhibition. *British Journal of Entomology and Natural History* **14**: 160-168. (R. G. Booth: *Monotoma quadricollis*)

Booth, R. G. (1988) The identity of *Tachyporus chrysomelinus* (Linnaeus) and the separation of *T. dispar* (Paykull) (Coleoptera: Staphylinidae). *Enomologist* **107**: 127-133.

—— (2004) 2003 Annual Exhibition. Coleoptera. *British Journal of Entomology and Natural History* **17**: 173-180. (M. G. Telfer: rare or notable British and Irish Coleoptera recorded during 2003 - species from The Irish Coleopterists Meeting, Portumna, 24-27 May 2003)

—— (2006) 2005 Annual Exhibition. Coleoptera. *British Journal of Entomology and Natural History* **19**: 185-189. (B. Nelson: new - *Stenopelmus rufinasus*, *Bagous lutosus*)

—— (2008) 2007 Annual Exhibition. Coleoptera. *British Journal of Entomology and Natural History* **21**: 176-184. (Alexander, K. N. A.: rare Irish beetles; Bowdrey, J. P.: *Ischnopterapion loti*, *Mecinus collaris*; Telfer, M. G.: *Pterostichus aterrimus*, *Bledius erraticus*, *B. subniger*, *Polydrusus pulchellus*)

—— (2009) 2008 Annual Exhibition. Coleoptera. *British Journal of Entomology and Natural History* **22**: 178-184. (Telfer, M. G.: notable species including additions to Irish lists: *Bledius spectabilis*, *Schistoglossa curtipennis* or *S. bergvalli*, *Halobrecta algophila*, *Pelenomus zumpti*)

Booth, R. G. and Telfer, M. G. (2019) *Ocypus sericeicollis* (Ménétries, 1832) not *Ocypus fortunatarum* Wollaston 1871 a British species (Staphylinidae). *The Coleopterist* **28**: 131-132.

Bourke, D., Stanley, D., O'Rourke, E., Thompson, R., Carnus, T., Dauber, J., Emmerson, M., Whelan, P., Hecq, F., Flynn, E., Dolan, L. and Stout, J. (2014) Response of farmland biodiversity to the introduction of bioenergy crops: effects of local factors and surrounding landscape context. *GCB Bioenergy* **6**: 275-289.

Bouskell, F. (1903) Three weeks in south Kerry. June, 1902. General account and botany. *Ir. Nat.* **12**: 57-59. (Col., Lep.)

Boyle, K. and Whelan, J. (1990) Changes in the diet of the badger *Meles meles* L. from autumn to winter. *Ir. Nat. J.* **23**: 199-202.

Bracken, J., Norton, M. and Phillips, H. (1991) A progress report on the rehabilitation of the Kilmastulla River, Co. Tipperary (1986-1988). Pp 115-134. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Bradish, S., O'Connor, A. and Reed, T. (2002) New records of the water beetles *Berosus signaticollis* (Charpentier) and *Graptodytes bilineatus* (Sturm) in turloughs. *Ir. Nat. J.* **27**: 83-84.

Breathnach, S. and Fairley, J. (1993) The diet of otters *Lutra lutra* (L.) in the Clare river system. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 151-158. (Dytiscidae)

Brendell, M. J. D. (1975) Coleoptera Family Tenebrionidae. *Handbooks for the Identification of British Insects* **5**(10): 1-22.

Brinck, P. (1978) Gyrinidae. P. 290. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Britten, H. and Newbery, E. A. (1910) A revision of the British species of *Ptenidium*, Erichson. *Entomologist's mon. Mag.* **46**: 178-183.

Brooks, D. R., Bater, J. E., Clark, S. J., Monteith, D. T., Andrews, C., Corbett, S. J., Beaumont, D. A. and Chapman, J. W. (2012) Large carabid beetle declines in a United Kingdom monitoring network increases evidence for a widespread loss in insect biodiversity. *Journal of Applied Ecology* **49**: 1009-1019.

Brown, A. (2016) The Plum-tree Longhorn (*Tetrops praeustus*) (Coleoptera, Cerambycidae) in Co. Limerick. *Ir. Nat. J.* **35**: 67.

Brown, A. G., Davis, S. R., Hatton, J., O'Brien, C., Reilly, F., Taylor, K., Dennehy, E., O'Donnell, L., Bermingham, N., Mighall, T., Timpany, S., Tetlow, E., Wheeler, J. and Wynne, S. (2016) The environmental context and function of burnt-mounds: new studies of Irish fulachtaí fiadh. *Proceedings of the Prehistoric Society* **82**: 259-290. (beetles)

Browne, J. M. (1892) (Coleoptera from Carrickmines). *Ir. Nat.* **1**: 64.

—— (1892) Some beetles from the Dublin District. *Ir. Nat.* **1**: 189-192.

—— (1893) (Exhibited Coleoptera). *Ir. Nat.* **2**: 51.

—— (1901) Entomological notes from Abbeyleix. *Ir. Nat.* **10**: 92, 204.

Brunker, J. P. and Stelfox, A. W. (1929) Phenological Report for 1928. *Ir. Nat. J.* **2**: 143-146.

Brunton, L. (1878) Additions to Dr. Power's List of Irish Coleoptera. *Entomologist* **11**: 94-95.

Bryan, M. and Anderson, R. (2011) *Litargus balteatus* Le Conte (Mycetophagidae) new to Ireland. *The Coleopterist* **20**: 72.

—— (2011) *Phymatodes testaceus* (Linnaeus) new to Ireland, and *Leiopus nebulosus* (Linnaeus) (Cerambycidae) found at Tynan, Co. Armagh. *The Coleopterist* **20**: 97.

—— (2005) A 1992 record for *Pyropterus nigroruber* (Degeer) (Coleoptera: Lycidae) from Co Sligo. *Ir. Nat. J.* **28**: 131-132.

—— (2007) *Lebia crux-minor* L. (Coleoptera: Carabidae) in Co Sligo. *Ir. Nat. J.* **28**: 466-467.

—— (2009) Some records for uncommon weevils (Coleoptera: Curculionidae), including *Squamapion atomarium* (Kirby) new to Ireland. *Bulletin of the Irish Biogeographical Society* **33**: 170-173.

Bryan, M. and Anderson, R. (2009) *Alosterna tabacicolor* (De Geer) (Cerambycidae) in Co. Sligo. *The Coleopterist* **18**: 188.

—— (2009) *Pyrochroa serraticornis* (Scopoli) (Pyrochroidae) and *Phaleria cadaverina* (Fabricius) (Tenebrionidae) in Co. Wexford. *The Coleopterist* **18**: 202.

—— (2009) *Lebia cruxminor* (Linnaeus) (Carabidae) in Co. Roscommon. *The Coleopterist* **18**: 204.

—— (2010) A second Irish record for *Caenopsis fissirostris* (Walton) (Curculionidae). *The Coleopterist* **19**: 73.

—— (2011) *Anthrenus verbasci* (Linnaeus) (Dermestidae) in Co. Cork. *The Coleopterist* **20**: 61.

—— (2011) Irish records for *Glischrochilus hortensis* (Fourcroy) (Nitidulidae). *The Coleopterist* **20**: 134.

—— (2011) *Pseudophloephagus aeneopiceus* (Boheman) (Curculionidae) in Co. Kerry. *The Coleopterist* **20**: 143.

Bryan, M. D. and Anderson, R. (2012) First record of *Atheta nidicola* (Johansen) (Staphylinidae) for Ireland. *The Coleopterist* **21**: 111-112.

—— (2013) *Alaobia subglabra* (Sharp) and *Gyrophaena munsteri* Strand (Staphylinidae) new to Ireland from Loughgall, Co. Armagh. *The Coleopterist* **22**: 73.

—— (2014) *Anisotoma castanea* (Herbst) (Leiodidae), new to Ireland, discovered in Co. Tyrone. *The Coleopterist* **23**: 16.

—— (2014) *Gyrophaena congrua* (Erichson) (Staphylinidae) new to Ireland. *The Coleopterist* **23**: 52-53.

—— (2014) *Alaobia taxiceroides* Munster (Staphylinidae) new to Ireland and other captures on spring fungi. *The Coleopterist* **23**: 115.

—— (2014) *Meotica exillima Sharp* (Staphylinidae) confirmed as an Irish species. *The Coleopterist* **23**: 131.

—— (2014) *Stenus assequens* Rey (Staphylinidae) new to Ireland from Co. Sligo. *The Coleopterist* **23**: 135.

—— (2014) *Cypha pulicaria* (Erichson) (Staphylinidae) new to Ireland. *The Coleopterist* **23**: 136.

—— (2014) A second Irish record of *Carpelimus obesus* (Kiesenwetter). *The Coleopterist* **23**: 136-137.

—— (2016) *Erichsonius signaticornis* (Mulsant & Rey) (Staphylinidae) discovered in Ireland. *The Coleopterist* **25**: 39.

Buck, F. D. (1954) Coleoptera (Lagriidae, Alleculidae, Tetratomidae, Melandryidae, Salpingidae, Pythidae, Mycteridae, Oedemeridae, Mordellidae, Scraptiidae, Pyrochroidae, Rhipiphoridae, Anthicidae, Aderidae and Meloidae). *Handbooks for the Identification of British Insects* **5**(9): 1-30.

Buckle, C. W. (1900) Beetles collected in Lough Foyle District, Cos. Donegal and Derry. *Ir. Nat.* **9**: 2-11.

—— (1900) Notes on Coleoptera. *Ir. Nat.* **9**: 130.

—— (1902) Entomological notes from Ulster. *Ir. Nat.* **11**: 40-44.

Bullock, E. (1897) (Coleoptera from Powerscourt and Douce). *Ir. Nat.* **6**: 168.

—— (1914) Coleoptera from the South West of Ireland. *Ir. Nat.* **23**: 105-112.

Bullock, E. (1928) Coleoptera from the Killarney District of County Kerry, Ireland. *Entomologist's mon. Mag.* **64**: 102-104.

—— (1930) *Agabus chalconotus* Panz. var. *melanocornis* Zimmermann in Ireland. *Entomologist's mon. Mag.* **66**: 127.

—— (1930) Some new records of Coleoptera from Ireland. *Entomologist's mon. Mag.* **66**: 140-141.

—— (1932) Coleoptera from Co. Kerry, Ireland. *Entomologist's mon. Mag.* **68**: 130.

—— (1932) Additional records of Coleoptera from Killarney. *Entomologist's mon. Mag.* **68**: 136.

—— (1935) Coleoptera new to Ireland from Co. Kerry. *Entomologist's mon. Mag.* **71**: 130-131.

Bullock, J. A. (1987) Chrysomelids (Col.) on *Salix* spp. in Eire, 1985. *Entomologist's mon. Mag.* **123**: 112.

Bullock, J. A. and Bullock, J. M. (1986) Chrysomelidae (Col.) feeding on willows. *Entomologist's mon. Mag.* **122**: 164.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Cameron, A., Anderson, R. and McFerran, D. M. (2000) Edaphic conditions and ground-beetle community structure in Northern Ireland. Pp 7-26. *In* Anderson, R., McFerran, D. M. and Cameron, A. (eds) *The ground beetles of Northern Ireland (Coleoptera-Carabidae). Atlases of the Northern Ireland Flora and Fauna* **1**. Ulster Museum Publication **No. 279**, Belfast.

Cameron, M. (1910) *Atheta* (*Homalota*) *picipennis*, Mann., in Ireland. *Entomologist's mon. Mag.* **46**: 280.

—— (1937) *Oxypoda lurida* Woll., a British species. *Entomologist's mon. Mag.* **73**: 279-280.

Carlsson, J., Cross, T., McGinnity, P., Prodohl, P. and McDevitt, A. (2014) The use of genetics to infer the origins of the terrestrial and freshwater elements of the Irish fauna. Pp 8-27. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Col.: *Hydroporus glabriusculus*)

Carpenter, G. H. (1892) *Rhagium bifasciatum* in Co. Cork. *Ir. Nat.* **1**: 82.

—— (1892) Coleoptera at Holywood, Co. Down. *Ir. Nat.* **1**: 42.

—— (1892) *Paederus riparius* L., in Ireland. *Ir. Nat.* **1**: 125.

—— (1894) (*Chrysomela polita*, *Tipula dispar*: Woodenbridge). *Ir. Nat.* **3**: 258.

—— (1894) (exhibited *Elenchus tenuicornis* Kirby). *Ir. Nat.* **3**: 90.

—— (1895) Notes on a new British beetle, *Otiorrhynchus auropunctatus*, Gyll., with remarks on the distribution of Irish animals. *Ir. Nat.* **4**: 213-218, 3 figs. (& spp.)

—— (1897) (Exhibited *Octhebius lejolisii*). *Ir. Nat.* **6**: 276.

—— (1902) Irish Entomology. *Ir. Nat.* **11**: 224-226. (review of Johnson's and Halbert's List)

—— (1904) (Exhibited *Lorocera pilicornis* larva). *Ir. Nat.* **13**: 50.

—— (1906) *Strangalia aurulenta* in Co. Wicklow. *Ir. Nat.* **15**: 275.

—— (1906) New localities for *Pelophila borealis*. *Ir. Nat.* **15**: 275.

—— (1907) (Exhibited *Psylliodes chrysocephala*). *Ir. Nat.* **16**: 129.

Carpenter, G. H. (1916) *Strophosomus coryli* on Larch. *Ir. Nat.* **25**: 100.

—— (1917) Useful studies for field naturalists. *Ir. Nat.* **26**: 66-70.

Carter, D. J. (1969) The Coleoptera of Cape Clear Island. *Cape Clear Bird Observatory Report* **10**: 25-32.

Cawley, M. (1996) The woodlice (Crustacea: Isopoda) of Cos Sligo and Leitrim. *Ir. Nat. J.* **25**: 273-277. (Staphylinidae including *Ocypus olens*)

—— (2012) *Psammoecus bipunctatus* (Fabricius) (Silvanidae), widespread in Ireland. *The Coleopterist* **21**: 124.

—— (2012) More records for uncommon weevils (Coleoptera: Curculionidea), including *Omphalapion hookeri* Kirby new to Ireland. *Bulletin of the Irish Biogeographical Society* **36**: 186-189.

—— (2013) Records of uncommon ground beetles (Coleoptera: Carabidae) from north-west Ireland. *Bulletin of the Irish Biogeographical Society* **37**: 109-114.

—— (2014) Records for uncommon Irish beetles (Coleoptera), including *Phacophallus parumpunctatus* (Gyllenhal) (Staphylinidae). *Bulletin of the Irish Biogeographical Society* **38**: 280-284.

—— (2015) *Cymindis vaporariorum* (Linnaeus) (Carabidae) in Co. Leitrim. *The Coleopterist* **24**: 145.

—— (2015) *Choleva lederiana* Reitter (Leiodidae) in Co. Sligo. *The Coleopterist* **24**: 184.

—— (2020) More records of uncommon Irish beetles (Coleoptera), including *Chilothorax conspurcatus* (Linnaeus, 1758) (Scarabaeidae). *Bulletin of the Irish Biogeographical Society* **44**: 252-260.

CEDaR (2020) Ground Beetles of Ireland. CEDaR - Online Resources. <http://www.habitas.org.uk/groundbeetles/>

Chalmers-Hunt, J. M. (1977) (Communications: *Cetonia aurata*). *Proceedings and Transactions of the British Entomological and Natural History Society* **10**: 117-118.

Champion, G. C. (1875) Occurrence in the North of Ireland of the true *Otiorhynchus monticola*, Germ. *Entomologist's mon. Mag.* **12**: 82.

—— (1875) Note on a few Irish and Welsh Coleoptera. *Entomologist's mon. Mag.* **12**: 82.

—— (1875) Note on *Otiorhynchus monticola*. *Entomologist's mon. Mag.* **12**: 134.

—— (1878) *Harpalus quadripunctatus* in Ireland. *Entomologist's mon. Mag.* **15**: 88.

—— (1895) *Otiorrhynchus auropunctatus*, Gyll., an addition to the British List. *Entomologist's mon. Mag.* **31**: 133-134.

—— (1897) The *Lema erichsoni*, Suffr., of British collections: synonymical note. *Entomologist's mon. Mag.* **33**: 135-136.

—— (1897) List of Additions, &c., to Sharp and Fowler's Catalogue of British Coleoptera (1893). *Entomologist's mon. Mag.* **33**: 145-147.

—— (1898) Some remarks on the *Bagous lutosus*, Gyll., and *B. glabrirostris*, Herbst. (*lutulentus*, Gyll.), of British collections. *Entomologist's mon. Mag.* **34**: 52-54.

—— (1899) Some remarks on *Phytosus balticus*, Kraatz, and *P. nigriventris*, Chevr., of British collections. *Entomologist's mon. Mag.* **35**: 1-2.

—— (1901) Coleoptera in the South-West of Ireland. *Entomologist's mon. Mag.* **37**: 270-272.

Champion, G. C. (1910) Note on *Grammoptera ruficornis*, F., var *pallipes*, Steph. *Entomologist's mon. Mag.* **46**: 70-71.

—— (1913) *Stenus oscillator*, Rye, in Ireland. *Entomologist's mon. Mag.* **49**: 88-89.

—— (1913) Supplementary note on *Stenus oscillator*, Rye. *Entomologist's mon. Mag.* **46**: 109.

—— (1914) Note on a dark form of *Hydrothassa marginella*, L., from Killarney. *Entomologist's mon. Mag.* **50**: 246-247.

—— (1922) *Gymnetron squamicolle* Reitt. in Hants and Surrey. *Entomologist's mon. Mag.* **58**: 277.

—— (1923) *Micropeplus tesserula* Curtis in Surrey and at Oxford. *Entomologist's mon. Mag.* **59**: 137-138.

Champion, G. C. and Lloyd, R. W. (1910) Some interesting British insects (II). *Entomologist's mon. Mag.* **46**: 1-3, 203-205.

Chaster, G. W. (1903) Two beetles from Roundstone, new to the Irish List. *Ir. Nat.* **12**: 167.

Chaster, G. W. and Tomlin, B. (1902) Coleoptera from Ballycastle, Co. Antrim. *Ir. Nat.* **11**: 61-65.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Claassens, A. J. M. (1964) Coleopterous fauna of Sand-martin (*Riparia riparia riparia* (L.)) burrows in Ireland. *Entomologist's Rec. J. Var.* **76**: 292-294.

—— (1965) *Leptinus testaceus* Muller (Col. Silphidae) new records. *Ir. Nat. J.* **15**: 60-62.

Claassens, A. J. M. and O'Rourke, F. J. (1964) *Leptinus testaceus* Muller (Col. Silphidae) a possibly parasitic beetle, new to Co. Cork. *Entomologist's Gazette* **15**: 49-50.

Clarke, R. O. S. (1973) Coleoptera Family Heteroceridae. *Handbooks for the Identification of British Insects* **5**(2c): 1-15.

Clawson, S. and Anderson, R. (2006) The banded pine weevils *Pissodes pini* (Linnaeus, 1758) and *P. castaneus* (DeGeer, 1775) (Coleoptera: Curculionidae) established in Ireland. *Entomologist's Gazette* **57**: 269-270.

—— (2011) *Lithostygnus serripennis* Broun (Latridiidae) found in Ireland. *The Coleopterist* **20**: 146.

Coll, M. T. and Bolger, T. (2007) Biodiversity and species composition of Carabidae in Irish coniferous forests: additional insight from the use of paired sites in comparisons with the fauna of open habitats. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 1-11.

Coll, M. T., Heneghan, L. and Bolger, T. (1995) Carabidae fauna in two Irish conifer stands: a comparison with those of some other European forests. *Biology and Environment: Proceedings of the Royal Irish Academy* **95**B: 171-177.

Collingwood, C. A. (1959) Notes on Irish Coleoptera. *Entomologist's Gazette* **10**: 39-42.

—— (1965) Myrmecophilous beetles in Ireland, Scotland and Wales. *Entomologist's Rec. J. Var.* **77**: 45-47.

Cooter, J. (1996) *Leiodes pallens* (Sturm, 1807) (Col., Leiodidae) not a British insect. *Entomologist's mon. Mag.* **132**: 87-90.

—— (1996) Annotated keys to the British Leiodinae (Col., Leiodidae). *Entomologist's mon. Mag.* **132**: 205-232, 233-272.

Coşkuncu, K. S. and Gencer, N. S. (2010) Determination of the species of Curculionoidea Superfamily on alfalfa fields (*Medicago sativa* L.) and their distribution in Bursa Province of Turkey. *Journal of Biological & Environmental Sciences* **4**: 123-131. (*Ceutorhynchus pallidactylus*)

Cotton, D., Dunleavy, J. and Govier, R. (2015) Two-spot Ladybird (*Adalia bipunctata*) in Armagh, Sligo, Galway and Dublin. *Ir. Nat. J.* **34**: 134-135.

Cotton, D. C. F. (1989) The ecology of Inishmurray. Pp 16-50. *In* Cotton, D. C. F. (ed.) *The future of Inishmurray.* Regional Technical College, Sligo. (Col. p. 30)

—— (2006) Some ladybird (Coleoptera: Coccinellidae) records from Cos Sligo and Leitrim. *Ir. Nat. J.* **28**: 253-255.

Cox, M. L. (1991) The larvae of the British *Phaedon* (Coleoptera: Chrysomelidae, Chrysomelinae). *Entomologist's Gazette* **42**: 267-280.

—— (1995) Identification of the *Oulema 'melanopus'* species group (Chrysomelidae). *The Coleopterist* **4**: 33-37.

—— (1996) Insect predators of Chrysomelidae. Pp 23-91. *In* Jolivet, P. H. A. and Cox, M. L. (eds) *Chrysomelidae Biology* **2**: *Ecological Studies.* SPB Academic Publishing, Amsterdam. (*Bembidion lampros*)

—— (1997) The larva of the flea beetle, *Mniophila muscorum* (Koch, 1803) (Coleoptera: Chrysomelidae, Alticinae), not a leaf-miner. *Entomologist's Gazette* **48**: 275-283.

—— (1998) The genus *Psylliodes* Latreille (Chrysomelidae: Alticinae) in the U.K. *The Coleopterist* **7**: 33-65.

—— (2000) Progress report on the Bruchidae/Chrysomelidae recording scheme. *The Coleopterist* **9**: 65-74.

—— (2007) *Atlas of the seed and leaf beetles of Britain and Ireland.* Pisces Publications, Newbury.

Coxon, P. (2008) Landscapes and environments of the last glacial-interglacial transition: a time of amazingly rapid change in Ireland. Pp 45-61. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. I.N.J Special Supplement*.

Crawford, W. M. (1932) *Ptinus tectus* Boiel. at Belfast. *Ir. Nat. J.* **4**: 40.

—— (1932) Ulster Coleoptera Records. *Ir. Nat. J.* **4**: 109.

—— (1932) Coleoptera in Northern Ireland. *Entomologist's mon. Mag.* **68**: 277-278.

—— (1933) Co. Antrim Coleoptera. *Ir. Nat. J.* **4**: 199-200.

—— (1934) Beetles migrating. *Ir. Nat. J.* **5**: 18.

—— (1934) Ulster Coleoptera Records. *Ir. Nat. J.* **5**: 19.

—— (1934) Ulster Coleoptera. *Ir. Nat. J.* **5**: 42.

—— (1934) Irish Coleoptera Records. *Ir. Nat. J.* **5**: 121.

—— (1934) Ulster Coleoptera Records. *Entomologist's mon. Mag.* **70**: 208.

—— (1935) Irish Coleoptera County Records. *Ir. Nat. J.* **5**: 174.

—— (1935) Water-beetles under ice. *Ir. Nat. J.* **5**: 201.

—— (1935) Coleoptera Records. *Ir. Nat. J.* **5**: 232.

—— (1935) Irish Coleoptera: new County Records. *Entomologist's mon. Mag.* **71**: 89-90.

—— (1936) Records of Irish Coleoptera. *Ir. Nat. J.* **6**: 25.

—— (1936) Irish Coleoptera records. *Ir. Nat. J.* **6**: 102.

Crawford, W. M. (1936) Irish Coleoptera records. *Ir. Nat. J.* **6**: 148.

—— (1936) A note on some Co. Antrim Coleoptera. *Entomologist's mon. Mag.* **72**: 44.

—— (1936) Irish Coleoptera: new records. *Entomologist's mon. Mag.* **72**: 137.

—— (1936) Records. Coleoptera. *Proceedings of the Belfast Naturalists' Field Club* **9**: 355-357.

—— (1937) New Irish water beetle *Rantus pulverosus* Stephens. *Ir. Nat. J.* **6**: 169.

—— (1937) Preliminary list of the aquatic Coleoptera of Co. Tyrone. *Ir. Nat. J.* **6**: 256-257.

—— (1937) Irish Coleoptera: new records. *Entomologist's mon. Mag.* **73**: 107-108.

—— (1937) (*Rantus pulverosus* near Belfast). *Proceedings of the Belfast Naturalists' Field Club* **9**: 404.

—— (1938) Co. Tyrone and other aquatic Coleoptera records. *Ir. Nat. J.* **7**: 87-88.

—— (1939) *Hydroporus dorsalis* F. and *Hydrochus brevis* Herbst. in Co. Antrim. *Ir. Nat. J.* **7**: 145.

Crawford, W. M. and O'Mahony, E. (1935) On some Northern Irish Coleoptera. *Ir. Nat. J.* **5**: 310-311.

Crisp, D. T. and Heal, O. W. (1958) The Corixidae (O. Hemiptera), Gyrinidae (O. Coleoptera) and Cladocera (Subphylum Crustacea) of a bog in western Ireland. *Ir. Nat. J.* **12**: 297-304.

Crory, A. and Anderson, R. (2013) Site Guide: Murlough Nature Reserve, Co. Down, Northern Ireland. *Atropos* **50**: 17-25.

Crotch, G. R. (1866) Revision of the "Catalogue of British Coleoptera". *Entomologist* **3**: 105-112.

Cummins, S. and O'Halloran, J. (2002) An assessment of the diet of nestling stonechats *Saxicola torquata* using compositional analysis. *Bird Study* **49**: 139-145.

Curry, J. P. (1987) Soil invertebrates as monitors of the effects of slurry and pesticide application. Pp 123-136. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin.

Curry, J. P. and Momen, F. M. (1988) The arthropod fauna of grassland on reclaimed cutaway peat in Central Ireland. *Pedobiologia* **32**: 99-109. (Col.: 1 species)

Curry, J. P. and Purvis, G. (1982) Studies on the influence of weeds and farmyard manure on the arthropod fauna of sugar beet. *Journal of Life Sciences of the Royal Dublin Society* **3**: 397-408.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London. (also includes Strep.)

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London. (also includes Strep.)

—— (1840) Descriptions, etc. of some rare or interesting indigenous insects. *Annals and Magazine of Natural History* **5**: 274-282.

Curtis, T., Downes, S. and Ní Chathin, B. (2009) The ecological requirements of water-dependent habitats and species designated under the habitats directive. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 261-319.

Cuthbert, H. G. (1892) Coleoptera from Courtown, Co. Wexford. *Ir. Nat.* **1**: 168-169.

Cuthbert, H. J. (1895) *Carabus cancellatus*, Ill., in West Cork. *Entomologist's mon. Mag.* **31**: 265. (& spp)

Cuthbert, H. K. G. (1892) Coleoptera in Co. Dublin. *Ir. Nat.* **1**: 103.

—— (1892) The weevils of South Louth. *Ir. Nat.* **1**: 158-161.

—— (1892) (Coleoptera from Carrickmines). *Ir. Nat.* **1**: 64.

—— (1893) Additional Coleoptera from Courtown, Co. Wexford. *Ir. Nat.* **2**: 301.

—— (1893) (Coleoptera from Friarstown Glen). *Ir. Nat.* **2**: 173, 277.

—— (1893) (Coleoptera from the Boyne). *Ir. Nat.***2**: 299.

—— (1894) Irish Coleoptera. Remarks. *Ir. Nat.* **3**: 45.

—— (1894) (Coleoptera from Rush). *Ir. Nat.* **3**: 241.

—— (1894) (Insects from Rush). *Ir. Nat.* **3**: 241. (Col., Orth,. Trich.)

—— (1895) Insects from Rosscarberry, Co Cork. *Ir. Nat.* **4**: 303-305. (correction)

—— (1896) (Coleoptera from Lambay I). *Ir. Nat.* **5**: 186.

—— (1896) *Carabus clathratus*, L., in Co. Wicklow. *Ir. Nat.* **5**: 191.

—— (1897) Bites of Telephori. *Ir. Nat.* **6**: 251.

—— (1897) Beetles, etc., from Ardmore, Co. Waterford. *Ir. Nat.* **6**: 87.

—— (1898) An entomologist at Ballybunion, Co. Kerry. *Ir. Nat.* **7**: 65-68.

—— (1902) Some problems of Irish Entomology. *Ir. Nat.* **11**: 106-108.

Cuthbert, H. K. G. and Carpenter, G. H. (1894) (Col). *Ir. Nat.* **3**: 160.

Cuthbert, H. K. G., Kane W. F. de V. and Carpenter, G. H. (1892) (discussion on *Mesites tardyi*). *Ir. Nat.* **1**: 22.

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6.

Daguerre, T. R. (2011) The beetles of Sherkin Island and Roaringwater Bay. *Sherkin Comment* **No. 52**: 5.

Daly, P. J. and Ryan, M. F. (1979) Ultrastructure of antennal sensilla of *Nebria brevicollis* (Fab.) (Coleoptera: Carabidae). *International Journal of Insect Morphology and Embryology* **8**: 169-181.

Darcy, N., Higgins, L. and Anderson, R. (2017) The status of *Trechus subnotatus* (Dejean) (Coleoptera: Carabidae) in Ireland, with a new site in the Dublin area. *Ir. Nat. J.* **35**: 132-133.

Darilmaz, M. and Kiyak, S. (2006) A contribution to the knowledge of the Turkish water beetles fauna (Coleoptera). *Munis Entomology & Zoology* **1**: 129-144.

Dauod, H. A., Bolger, T. and Bracken, J. J. (1985) Studies on the minnow *Phoxinus phoxinus* (L.) from an upland Irish reservoir system. *Irish Fisheries Investigations Series A* **No. 26**: 3-22.

—— (1985) Studies on the three-spined stickleback *Gasterosteus aculeatus* L. from an upland reservoir system. *Irish Fisheries Investigations Series A* **No. 27**: 3-16.

Davis, S. J., Mellander, P.-E., Kelly, A.-M., Matthaei, C. D., Piggott, J. J. and Kelly-Quinn, M. (2018) Multiple-stressor effects of sediment, phosphorus and nitrogen on stream macroinvertebrate communities. *Science of the Total Environment* **637**: 577-587.

Dawson, J. F. (1858) Coleoptera. Notes on British Geodephaga, with description of one new species (supplementary to the Geodephaga Britannica). *The Entomologist's Annual* **1858**: 47-61.

Day, K. R. (1987) The species and community characteristics of ground beetles (Coleoptera: Carabidae) in some Northern Ireland nature reserves. *Proceedings of the Royal Irish Academy* **87**B: 65-82.

Day, K. R. and Watt, A. D. (1989) Population studies of the beech leaf mining weevil (*Rhynchaenus fagi*) in Ireland and Scotland. *Ecological Entomology* **14**: 23-30. (includes eulophid and braconid parasitoids)

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

de Oude, J. E. (2004) Het voorkomen van *Amphotis marginata* (Coleoptera: Nitidulidae). *Entomologische Berichten* **64**: 59-61.

Delap, M. (1930) A rare weevil in Counties Dublin and Kerry. *Ir. Nat. J.* **3**: 20.

Denton, J. (2004) Progress report on the Steninae Recording Scheme. *The Coleopterist* **13**: 143-145.

Denton, J. and Foster, G. (2000) Scirtid recording in Britain and Ireland - first progress report. *Latissimus* **No. 12**: 1.

—— (2011) *Stenus glabellus* Thomson, C. G. (Staphylinidae) in County Cavan. *The Coleopterist* **20**: 140.

Deville, J. St.-Cl. (1923) *Anthicus constrictus* Curt., a valid species. *Entomologist's mon. Mag.* **59**: 3-5.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Donisthorpe, H. (1940) *Xorides indicatorius* Latr. ?parasitic on *Leiopus nebulosus* L., and a list of other species of hymenopterous parasites of Coleoptera in Great Britain. *Entomologist* **73**: 14-20.

Donisthorpe, H. St. J. (1899) Notes on the additions to the British List of Coleoptera since Canon Fowler's "Coleoptera of the British Isles". *Entomologist's Rec. J. Var.* **11**: 137-138, 216-217.

—— (1902) A few notes on the Coleoptera in the West Coast of Ireland. *Entomologist's Rec. J. Var.* **14**: 239-241.

—— (1902) (Coleoptera from Kerry). *Transactions of the Leicester Literary and Philosophical Society* **7**: 149-150.

—— (1902) *Coccinella 11-punctata* var *confluens*, n. var. *Entomologist's Rec. J. Var.* **14**: 99-100.

—— (1902) *Quedius cruentus* var. *virens*, Rottbg. *Entomologist's Rec. J. Var.* **14**: 297-298.

—— (1903) Three weeks in south Kerry. June, 1902. Coleoptera. *Ir. Nat.* **12**: 59-65.

—— (1905) *Ocalea latipennis*, Shp., in Surrey. *Entomologist's Rec. J. Var.* **17**: 103.

Donisthorpe, H. St. J. (1905) Coleoptera in 1905. *Entomologist's Rec. J. Var.* **17**: 291-293.

—— (1906) *Donacia obscura*, in the Norfolk Broads. *Entomologist's Rec. J. Var.* **18**: 214-215.

—— (1917) *Elater praeustus*, F., an Irish beetle. *Ir. Nat.* **26**: 99-100.

—— (1918) On the subspecies and aberrations of *Coccinella 11-punctata* L. *Entomologist's Rec. J. Var.* **30**: 121-128.

—— (1921) *Gymentron squamicolle* Reitter, a beetle new to the Brittanic List. *Ir. Nat.* **30**: 135.

—— (1921) *Cionus woodi*: a species of Coleoptera new to Science; with a table and some remarks on the British species of *Cionus*. *Entomologist's Rec. J. Var.* **33**: 64-67.

—— (1922) Some casual notes on Coleoptera in 1922. *Entomologist's Rec. J. Var.* **34**: 202-203.

—— (1922) *Nebria iberica* Oliveira, a British species. *Entomologist's mon. Mag.* **58**: 92-93.

—— (1928) *Hydrothassa marginella* L., ab. *devillei* Bullock. *Entomologist's mon. Mag.* **64**: 207.

—— (1929-1931) An annotated list of the additions to the British coleopterous fauna, made since the publication of the Supplementary Volume (VI) of Fowler's "Coleoptera of the British Islands". *Entomologist's mon. Mag.* **65**: 186-196, 236-244. **66**: 143-152, 192-203, 261-267. **67**: 22-30, 68-75, 119-126.

—— (1931) *Pterostichus cupreus*, L., ab. *caesicius* n.ab. *Entomologist's Rec. J. Var.* **43**: 52.

—— (1935) *Anthonomus rufus* Schon. (Curculionidae, Col.), a beetle new to Ireland. *Entomologist's mon. Mag.* **71**: 101.

—— (1935) A few days collecting at Killarney. *Entomologist's Rec. J. Var.* **47**: 65.

—— (1938) Coleoptera taken at Muckross, near Killarney, in May. *Entomologist's Rec. J. Var.* **50**: 92-94.

—— (1944) *Tachyporus cameroni* sp.n. (Col., Staphylinidae) in Ireland. *Entomologist's mon. Mag.* **80**: 67.

—— (1946) *Ptomophagus varicornis* Ross. (Col., Cholevidae) in Ireland. *Entomologist's mon. Mag.* **82**: 114.

Doogue, D. (1980) *A ladybird recording scheme*. An Foras Forbartha, Dublin. 21pp.

Douglas, E. D. R. (1891) *Creophilus maxillosus*, var. *ciliaris* Steph., in Ireland. *Entomologist's mon. Mag.* **27**: 305. (& spp)

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Drinan, T. J., Foster, G., Nelson, B. and O'Halloran, J. (2013) Macroinvertebrate assemblages of peatland lakes: Assessment of conservation value with respect to anthropogenic land-cover change. *Biological Conservation* **158**: 175-187.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (latitudes for three of the lakes are incorrect, 50 should read 53)

Drost, B. (2009) Notities over de Nederlandse status en de Europese verspreiding van *Gyrinus natator*, *G. colymbus* en *G. urinator* (Coleoptera: Gyrinidae). *Entomologische Berichten* **69**: 136-141.

Duff, A. (2012) A major disadvantage of the 'Typomap' system for recording locality data. *Beetle News* **4**: 2. (used by Balfour Browne including for Irish distributions)

Duff, A. G. (ed.) (2008) *Checklist of beetles of the British Isles*. 2008 edition. Wells, Somerset.

—— (2012) *Beetles of Britain and Ireland.* **Volume 1** *Sphaeriusidae to Silphidae*. A. G. Duff Publishing, West Runton.

—— (2016) *Checklist of beetles of the British Isles*. Second edition. Pemberley Books (Publishing), Iver.

—— (2016) *Beetles of Britain and Ireland.* **Volume 4** *Cerambycidae to Curculionidae*. A. G. Duff Publishing, West Runton.

—— (2018) *Checklist of beetles of the British Isles*. Third edition. Pemberley Books (Publishing), Iver.

—— (2020) *Beetles of Britain and Ireland*. **Volume 3** *Geotrupidae to Scraptiidae*. A. G. Duff Publishing, West Runton.

Dunleavy, J. (2011) The ant beetle (*Thanasimus formicarius*) (L.) (Coleoptera: Cleridae) in Co. Sligo. *Ir. Nat. J.* **31**: 140.

Dunlop, S. (2016) Identifying leaf miners. *Biodiversity Ireland* **Issue 14**: 16. (Col., Dipt., Hym., Lep.)

Dunne, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Edelsten, H. M. (1941) *Carabus auratus* L. (Col.) in N.E. London. *Entomologist's mon. Mag.* **77**: 207.

Edwards, J. (1908) On the British species of *Helophorus*, Fab. *Entomologist's mon. Mag.* **44**: 218-224.

—— (1913) A contribution to a knowledge of the British Notiophili. *Entomologist's mon. Mag.* **49**: 70-75.

—— (1914) On the variation in Britain of *Coccinella hieroglyphica*, L. with some collateral matter. *Entomologist's mon. Mag.* **50**: 139-143.

Elliott, J. M. (2008) The ecology of riffle beetles (Coleoptera: Elmidae). *Freshwater Reviews* **1**: 189-203. (Ireland mentioned)

Emden, F. I. van (1941) Larvae of British beetles. II. A key to the British Lamellicornia larvae. *Entomologist's mon. Mag.* **77**: 181-192.

—— (1943) Larvae of British beetles. IV. Various small families. *Entomologist's mon. Mag.* **79**: 209-223.

—— (1945) Larvae of British beetles. V. Elateridae. *Entomologist's mon. Mag.* **81**: 37.

—— (1947) Larvae of British beetles. VI. Tenebrionidae. *Entomologist's mon. Mag.* **83**: 154-171.

Entwistle, P. F. and Moran, S. A. (1997) Variability in the eleven-spot ladybird *Coccinella undecimpunctata* Linnaeus (Coccinellidae) in the northern highlands of Scotland compared with other parts of the British Isles. *The Coleopterist* **5**: 69-75.

Everard, A., Griffin, C. T. and Dillon, A. B. (2009) Competition and intraguild predation between the braconid parasitoid *Bracon hylobii* and the entomopathogenic nematode *Heterorhabditis downesi*, natural enemies of the large pine weevil, *Hylobius abietis*. *Bulletin of Entomological Research* **99**: 151-161.

Eyre, M. D., Lott, D. A. and Garside, A. (1996) Assessing the potential for environmental monitoring using ground beetles (Coleoptera: Carabidae) with riverside and Scottish data. *Annales Zoologici Fennici* **33**: 157-163.

Fadl, A., Purvis, G. and Towey, K. (1996) The effect of time of soil cultivation on the incidence of *Pterostichus melanarius* (Illig.) (Coleoptera: Carabidae) in arable land in Ireland. 3rd international symposium of Carabidology, Kaunlainen. *Annales Zoologici Fennici* **33**: 207-214.

Fahy, E. (1972) A short account of the Elminthidae in Ireland with a key to the larvae. *Ir. Nat. J.* **17**: 264-267.

—— (1972) Observations on the growth and distribution of certain lotic Coleoptera in Ireland. *Ir. Nat. J.* **17**: 269-272.

Fahy, O. and Gormally, M. (1998) A comparison of plant and carabid beetle communities in an Irish oak woodland with a nearby conifer plantation and clearfelled site. *Forest Ecology and Management* **110**: 263-273.

Fairley, J. S. (1963) Mesostigmatid mites from the fieldmouse in Co. Down and a note on the beetle *Leptinus testaceus* Mull. *Ir. Nat. J.* **14**: 165-167.

—— (1965) Further observations on the distribution of the epifauna of the fieldmouse (*Apodemus sylvaticus* L.) in Ireland. *Ir. Nat. J.* **15**: 67-69. (*Leptinus testaceus*)

—— (1973) Kestrel pellets from a Winter roost. *Ir. Nat. J.* **17**: 407-409.

—— (1975) Summer food of pine martens in Co. Clare. *Ir. Nat. J.* **18**: 257-258.

Fairley, J. S. and Clark, F. L. (1971) Barn Owl pellets from Co. Galway. *British Birds* **64**: 34.

Faris, R. C. (1935) A "swarm" of cockchafers in County Cavan. *Ir. Nat. J.* **5**: 270-271.

—— (1943) The beetle *Carabus clathratus* L. at low altitudes inland. *Ir. Nat. J.* **8**: 84.

—— (1974) *Metoecus paradoxus* L. in Co. Dublin. *Ir. Nat. J.* 1**8**: 95.

Fanning, P. D. and Baars, J.-R. (2013) Biology of the Eucalyptus leaf beetle *Paropsisterna selmani* (Chrysomelidae: Paropsini): a new pest of Eucalyptus species (Myrtaceae) in Ireland. *Agricultural and Forest Entomology* **16**: 45-53.

Farran, G. P., Stelfox, A. W., Johnson, W. F., Halbert, J. N. and Tattersall, W. M. (1911-1915). Addenda and Corrigenda to Section 2. Proceedings of the Royal Irish Academy. Section C: Archaeology, Celtic Studies, History, Linguistics, Literature 31: vii-xi. (Clare Island Survey)

Farrell, N. (1895) (Insects from Glenasmole). *Ir. Nat.* **4**: 222.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Feeley, H. B., Davis, S., Bruen, M., Blacklocke, S. and Kelly-Quinn, M. (2012) The impact of a catastrophic storm event on benthic macroinvertebrate communities in upland headwater streams and potential implications for ecological diversity and assessment of ecological status. *Journal of Limnology* **71**: 299-308.

Feeley, H. B. and Kelly-Quinn, M. (2012) An evaluation of local and regional diversity of benthic macroinvertebrate communities in two small regions of Ireland and their potential as localised refugia for certain taxonomic groups. *Biology and Environment: Proceedings of the Royal Irish Academy* **112**B: 43-54.

—— (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218.

Feeley, H. B., Woods, M., Baars, J.-R. and Kelly-Quinn, M. (2012) Refining a kick sampling strategy for the bioassessment of benthic macroinvertebrates in headwater streams. *Hydrobiologia* **683**: 53-68. DOI 10.1007/s10750-011-0940-9

Ferrer, J. and Whitehead, P. F. (2002) The Genus *Xanthomus* Mulsant, 1854 (Coleoptera: Tenebrionidae), its evolutionary history and conservation significance. *Annales Zoologici* **52**: 383-401.

Finn, J., Gittings, T. and Giller, P. S. (1998) *Aphodius* dung beetle assemblage stability at different spatial and temporal scales. *Applied Soil Ecology* **10**: 27-36.

Finn, J. A. and Giller, P. S. (2000) Patch size and colonisation patterns: an experimental analysis using north temperate coprophagous dung beetles. *Ecography* **23**: 315-327.

—— (2002) Experimental investigations of colonisation by north temperate dung beetles of different types of domestic herbivore dung. *Applied Soil Ecology* **20**: 1-13.

Finn, J. A. and Gittings, T. (2003) A review of competition in north temperate dung beetle communities. *Ecological Entomology* **28**: 1-13.

Finn, J. A., Gittings, T. and Giller, P. S. (1999) Spatial and temporal variation in species composition of dung beetle assemblages in southern Ireland. *Ecological Entomology* **24**: 24-36.

Finnegan, P. M., Flanagan, D. P. and Gormally, M. J. (1997) Preliminary investigations of *Aphodius* species activity in cattle faeces treated with ivermectin. *Medical and Veterinary Entomology* **11**: 139-142.

Fisher, K., Nelson, B. and Baars, J.-R. (2015) Motorway attenuation ponds make a significant contribution to the landscape biodiversity of mobile aquatic insect groups. Conference*: ENVIRON (2015)* The 25th environmental researchers' colloquium. At: Sligo IT, Sligo, Ireland.

Fisher, N. (1935) Marine beetle at Greenisland, Co. Antrim. *Ir. Nat. J.* **5**: 310.

—— (1936) *Aepus* and *Lipura* at Greenisland: a further note. *Ir. Nat. J.* **6**: 24.

Fitch, E. A. (1881) *Phaedon betulae* (Sharp, Cat). *Entomologist* **14**: 187-188.

Fitzpatrick, Ú., Regan, E. and Lysaght, L. (2011) Ireland's biodiversity in 2010. *Biodiversity Ireland* **Issue 7**: 4-5.

Foot, A. W. (1870) Brief notes on Entomology. *Proceedings of the Natural History Society of Dublin* **6**: 62-66.

Forbes, A. C. (1910) The economic importance of Scolytidae in Irish Forestry. *Ir. Nat.* **19**: 89-91, 1 pl.

Forsythe, T. G. (1987) *Common ground beetles*. Naturalists' Handbooks **8**. The Richmond Publishing Co. Ltd, Slough. (mention of a few Northern Ireland species) (2000, Second edition)

Foster, A. P. (2011) *Scolytus rugulosus* (Müller) (Scolytidae) new to Ireland. *The Coleopterist* **20**: 99.

Foster, G. (2015) Taking the oldest insect recording scheme into the 21st Century: The oldest Insect Recording Scheme? *Biological Journal of the Linnean Society* **115**(3) DOI: 10.1111/bij.12531

Foster, G. and Bellstedt, R. (2005) *Dytiscus circumflexus* (Fabricius) (Dytiscidae) in Scotland and the Isle of Man. *The Coleopterist* **14**: 129-131. (two records)

Foster, G., Bilton, D. and Friday, L. E. (2014) Keys to adults of the water beetles of Britain and Ireland (Part 1). *Royal Entomological Society/Field Studies Council*.

—— (2014) Keys to adults of the water beetles of Britain and Ireland (Part 2). *Handbooks for the Identification of British Insects* **4**(5b): 126pp.

Foster, G. and Lott, D. (1988) Beyond the pale. *The Balfour-Browne Club Newsletter* **No. 42**: 7-8. (water beetles)

Foster, G. and Nelson, B. (2010) Some recent records of Donaciinae in Britain and Ireland. *The Coleopterist* **19**: 15-19.

Foster, G., Nelson, B. and Cathrine, C. (2016) Further records of Donaciinae in Britain and Ireland, 2010-2015. *The Coleopterist* **25**: 69-73.

Foster, G. N. (1969) *Hydroporus longicornis* Sharp (Col., Dytiscidae) in East Sussex, with notes upon its known distribution. *Entomologist's mon. Mag.* **104** (1968): 149-156.

—— (1981) Atlas of British water beetles-preliminary edition. Part 1. *The Balfour-Browne Club Newsletter* **No. 22**: 1-18.

—— (1983) Further notes on *Helochares* species in Britain and Ireland. *The Balfour-Browne Club Newsletter* **No. 26**: 11.

—— (1983) Atlas of British water beetles. Preliminary edition - Part 1. *The Balfour-Browne Club Newsletter* **No. 27**: 1-23.

—— (1984) Atlas of British water beetles-preliminary edition. Part 3. *The Balfour-Browne Club Newsletter* **No. 31**:1-22.

—— (1985) Atlas of British water beetles. Preliminary edition - Part 4. *The Balfour-Browne Club Newsletter* **No. 35**: 1-22.

—— (1987) Atlas of British water beetles. Preliminary edition - Part 5. *The Balfour-Browne Club Newsletter* **No. 40**: 1-23.

—— (1990) Atlas of British water beetles. Preliminary edition - Part 6. *The Balfour-Browne Club Newsletter* **No. 48**: 1-18.

—— (1994) Operating a recording scheme. *British Journal of Entomology and Natural History* **7** (Suppl. 1): 46-57. (*Anacaena limbata, A. lutescens*)

—— (1995) Some records of aquatic Coleoptera in Kerry, including *Helophorus griseus* Herbst (Coleoptera: Helophoridae) new for Ireland. *Ir. Nat. J.* **25**: 32-34.

—— (2001) (Meeting of the Insect Conservation Specialist Interest Group). *Latissimus* **13**: 34-35. (*Gyrinus*)

—— (2002) Update on the UK biodiversity action plan. *Latissimus* **15**: 20-22. (B. Nelson: *Donacia aquatica*)

—— (2003) Irish meeting May 2003. *Latissimus* **17**: 10-11.

—— (2003) Progress on the British and Irish recording scheme. *Latissimus* **17**: 33. (water beetles)

Foster, G. N. (2004) An annotated checklist of British and Irish water beetles, and associated taxa: Myxophaga and Adephaga - Hydradephaga. *The Coleopterist* **13**: 149-160.
—— (2004) Progress on the British & Irish atlas - the distribution of *Dytiscus* and a request for more records. *Latissimus* **18**: 8-9.
—— (2004) Extra terrestrials - British *Emplerus*. *Latissimus* **18**: 18-19.
—— (2005) An annotated checklist of British and Irish water beetles, and associated taxa: Polyphaga, with an update to Adephaga. *The Coleopterist* **14**: 7-19.
—— (2007) Notes on the status of Irish Hydrochidae (Coleoptera). *Ir. Nat. J.* **28** (2006): 309-312.
—— (2007) Browsing section - Alexander Henry Haliday - *if we do not try to do more than we do we shall do less than we do*. *Latissimus* **22**: 27.
—— (2007) Turloughs - horse and boat races on the same ground. *Latissimus* **22**: 28.
—— (2008) *Cyphon kongsbergensis* Munster in north-west Ireland (Coleoptera, Scirtidae). *Ir. Nat. J.* **29**: 48.
—— (2008) Whirligigs in Brtain and Ireland. *British Wildlife* **October 2008**: 28-35.
—— (2008) The new Irish water beetle. *Biodiversity Ireland* **Issue 1**: 4-5. (*Ochthebius*)
—— (2008) Red lists for Europe. *Latissimus* **24**: 14-19.
—— (2008) Jewels among the reeds. *Latissimus* **24**: 26.
—— (2009) *Chaetarhria* in Britain and Ireland. *Latissimus* **25**: 14.
—— (2009) Scirtidae in Ireland. *Latissimus* **25**: 17.
—— (2009) More on *Stictotarsus griseostriatus* chromosomes. *Latissimus* **25**: 23.
—— (2009) Ecology of riffle beetles - a review. *Latissimus* **25**: 27.
—— (2009) Waterford inventory. *Latissimus* **25**: 28.
—— (2009) Whirligigs in Britain & Ireland. *Latissimus* **25**: 29.
—— (2009) *Ochthebius poweri* in Ireland. *Latissimus* **25**: 29.
—— (2009) Irish Red List. *Latissimus* **25**: 32.
—— (2009) *Agabus melanarius* in Ireland and Cumberland. *Latissimus* **26**: 31.
—— (2009) Irish turloughs. *Latissimus* **26**: 35.
—— (2009) The *Ochthebius viridis* complex in Britain and Ireland (Hydraenidae). *The Coleopterist* **18**: 85-90.
—— (2010) *Ochthebius nilssoni* in Ireland. *Latissimus* **27**: 28.
—— (2010) Irish reed beetles - a rediscovery and a mystery. *Latissimus* **27**: 29.
—— (2010) *Ochthebius poweri* in Britain and Ireland. *Latissimus* **27**: 32.
—— (2010) *Stenopelmus* in Ireland. *Latissimus* **28**: 12.
—— (2010) Kilfenora 2010. *Latissimus* **28**: 14-16. (Balfour-Browne Club meeting in the Burren: aquatic beetles)
—— (2010) Plants predict beetles? *Latissimus* **28**: 20. (mistakes in names of water beetles in Gioia *et al.* (2010) *Biological Conservation* **143**: 1125-1133)
—— (2010) reed beetle records. *Latissimus* **28**: 26.
—— (2010) *Platambus maculatus* in the Urrin. *Latissimus* **28**: 32.
—— (2010) Heteroceridae (Coleoptera) in Ireland. *Bulletin of the Irish Biogeographical Society* **34**: 108-127.
—— (2011) Water beetles of Ireland. National Biodiversity Data Centre. <http://waterbeetlesofireland.biodiversityireland.ie/>.

Foster, G. N. (2011) Old records of *Hydraena pygmaea* in Ireland. *Latissimus* **29**: 18.
—— (2011) Diversity & loss in Ireland. *Latissimus* **29**: 19.
—— (2011) New record card for Britain & Ireland. *Latissimus* **29**: 35.
—— (2012) Lough Carra. *Latissimus* **31**: 15. (*Ochthebius nanus* must be *O. nilssoni*)
—— (2016) Alfred Furlong 1792-1861. *Latissimus* **38**: 29. (*Hygrobia hermanni*)
—— (2019) Mayo *Ochthebius nilssoni*. *Latissimus* **44**: 12.

Foster, G. N., Bilton, D. T., Hammond, M. and Nelson, B. H. (2018) *Atlas of the Hydrophiloid Beetles of Britain and Ireland.* Field Studies Council, Preston Montford, Shrewsbury, Shropshire.

Foster, G. N., Bilton, D. T., Hammond, M., Nelson, B. H., Chadd, R. and Denton, J. S. (2020) *Atlas of Water Beetles of Britain and Ireland - Smaller Families of Polyphaga.* Field Studies Council, Preston Montford.

Foster, G. N., Bilton, D. T. and Nelson, B. H. (2016) *Atlas of the Predaceous Water Beetles (Hydradephaga) of Britain and Ireland.* Published for Biological Records Centre by Field Studies Council Publications, Telford.

Foster, G. N., Bilton, D. T., Routledge, S. and Eyre, M. D. (2008) The past and present statuses of *Hydroporus rufifrons* (Müller) (Dytiscidae) in Great Britain. *The Coleopterist* **17**: 51-63. (deletion of Irish records)

Foster, G. N., Bratton, J. H., Ewing, A. W., Hodge, P. J. and Nobes, G. (2007) Current status of *Donacia aquatica* Linnaeus (Chrysomelidae) in Britain and Ireland. *The Coleopterist* **16**: 25-34.

Foster, G. N. and Friday, L. E. (2011) Keys to adults of the water beetles of Britain and Ireland. Part 1 (Coleoptera: Hydradephaga, Gyrinidae, Haliplidae, Paelobiidae, Noteridae and Dytiscidae). *Handbooks for the Identification of British Insects* **4**(5): i-iv, 1-143.

Foster, G. N. and Lott, D. A. (1989) Modern records of upland aquatic Coleoptera (Dytiscidae) in Ireland. *Ir. Nat. J.* **23**: 72-73.

Foster, G. N., Nelson, B. H., Bilton, D. T., Lott, D. A., Merritt, R., Weyl, R. S. and Eyre, M. D. (1992) A classification and evaluation of Irish water beetle assemblages. *Aquatic Conservation: Marine & Freshwater Ecosystems* **2**: 185-208.

Foster, G. N., Nelson, B. H. and O'Connor, Á. (2009) *Ireland Red List No. 1: Water beetles*. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Foster, G. N. and Reynolds, J. D. (2008) Rediscovery of *Prionocyphon serricornis* (Müller) (Coleoptera: Scirtidae) in Ireland. *Ir. Nat. J.* **29**: 49.

Foster, S., Nelson, B. and Anderson, R. (2018) Pine ladybird *Exochomus quadripustulatus* (Linnaeus) (Coccinellidae) new to Ireland. *The Coleopterist* **27**: 114.

Fowler, W. W. (1882) Notes on new British Coleoptera since 1871, with notices of doubtful species, and of others that require to be omitted from the British List. *Entomologist's mon. Mag.* **19**: 121-126, 167-172.
—— (1884) *Philonthus estutus*, Er. *Entomologist's mon. Mag.* **20**: 168.
—— (1884) *Diglossa submarina*, Fairm. (*sinuatocollis*, Rey). *Entomologist's mon. Mag.* **20**: 168.
—— (1885) The Nitidulae of Great Britain. *Entomologist's mon. Mag.* **22**: 69-78.

Fowler, W. W. (1885) *Pelophila borealis*, Payk. Peculiarity of tarsi. *Entomologist's mon. Mag.* **22**: 138-139.

—— (1887-1913) The Coleoptera of the British islands. A descriptive account of the families, genera, and species indigenous to Great Britain and Ireland, with notes as to localities, habitats, etc. 6 volumes. L. Reeve & Co., London.

—— (1889) On the British species of the Genus Anaspis, Geoffrey, with description of a new species. *Entomologist's mon. Mag.* **25**: 331-338.

—— (1890) Carabus glabratus, Payk., in Ireland. Entomologist's mon. Mag. 26: 271.

Fowles, A. P. and Morris, M. G. (1999) *Datonychus arquatus* (Herbst, 1795) (Curculionidae) in the British Isles. *The Coleopterist* **8**: 117-119.

Frank, J. H. and Ahn, K.-J. (2011) Coastal Staphylinidae (Coleoptera): a worldwide checklist, biogeography and natural history. *Zookeys* **107**: 1-98.

Friday, L. (1986) Ireland 17-24 September 1986. *The Balfour-Browne Club Newsletter* **No. 38**: 3-4. (water beetles)

Friday, L. E. (1987) New records of aquatic Coleoptera from Cos Cork and Kerry. *Ir. Nat. J.* **22**: 343-345.

Fritch, R. A., Sheridan, S., Finn, J. A., McCormack, S. and Ó hUallacháin, D. (2017) Enhancing the diversity of breeding invertebrates within field margins of intensively managed grassland: Effects of alternative management practices. *Ecology and Evolution* **7**: 9763-9774.

Furlong, A. (1856) First Supplement to the Catalogue of Coleoptera found in the Neighbourhood of Dublin. *The Natural History Review* **3**: 72-73.

Gahan, C. J. (1908) On the larvae of *Trictenotoma childreni*, Gray, *Melittomma insulare*, Fairmaire, and *Dascillus cervinus*, Linn. *Transactions of the Entomological Society of London* **908**: 275-282, 1 plate. (record of larvae of *D. cervinus* from Dublin)

Gardner, A. E. (1969) (Exhibit: *Hypocyptus laeviusculus* Mann. (Staphylinidae) from sphagnum). *Proceedings and Transactions of the British Entomological and Natural History Society* **2**: 34.

Geiser, M. F. and Fanti, F. (2015) On the nomenclature of *Cantharis nigra* (de Geer, 1774) and *C. thoracica* (A.G. Olivier, 1790) (Cantharidae) as used in Britain and Ireland. *The Coleopterist* **24**: 164-166.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 115-126.

Gimingham, C. T. (1942) *Tetratoma ancora* F. (Col., Melandryidae) and other beetles in Ireland. *Entomologist's mon. Mag.* **78**: 51.

Gioria, M. and Feehan, J. (2009) Aquatic Coleoptera assemblages in the Irish agricultural landscape. *19th Irish Environmental Researchers Colloquium*. Waterford Institute of Technology, Waterford.

—— (2009) The significance of ponds in maintaining biodiversity in an intensively farmed landscape. Available from *Nature Precedings*. <http://dx.doi.org/10.1038/npre.2009.3596.1>

Gioria, M., Schaffers, A., Bacaro, G., and Feehan, J. (2010) The conservation value of farmland ponds: predicting water beetle assemblages using vascular plants as a surrogate group. *Biological Conservation* **143**: 1125-1133.

Gittings, T. and Giller, P. (1999) Larval dynamics in an assemblage of *Aphodius* dung beetles. *Pedobiologia* **43**: 439-452.

Gittings, T. and Giller, P. S. (1997) Life history traits and resource utilisation in an assemblage of north temperate *Aphodius* dung beetles (Coleoptera, Scarabaeidea). *Ecography* **20**: 55-56.

—— (1998) Resource quality and the colonisation and succession of coprophagous dung beetles. *Ecography* **21**: 581-592.

Gittings, T., Giller, P. S. and Stakelum, G. (1994) Dung decomposition in contrasting temperate pastures in relation to dung beetle and earthworm activity. *Pedobiologia* **38**: 455-474.

Good, J. A. (1986) Invertebrates of Irish midlands raised bogs: part IV. Notes on terrestrial insects. *Bulletin of the Irish Biogeographical Society* **9**: 2-9.

—— (1988) The value and state of taxonomy of graminoid agroecosystem Staphylinidae (Coleoptera). Pp 14-30. *In* Moriarty, C. (ed.) *Taxonomy - putting plants and animals in their place.* Royal Irish Academy, Dublin.

—— (1989) *Stenus palustris* Erichson (Coleoptera: Staphylinidae): a reed marsh beetle new to Ireland. *Ir. Nat. J.* **23**: 32.

—— (1990) *Philonthus micantoides* Benick and Lohse (Coleoptera: Staphylinidae): a river bank beetle new to Ireland. *Ir. Nat. J.* **23**: 220.

—— (1990) *Megarthrus hemipterus* (Illiger) (Coleoptera: Staphylinidae), to be deleted from the Irish list. *Ir. Nat. J.* **23**: 283.

—— (1990) *Lathrobium ripicola* Czwalina (Coleoptera: Staphylinidae), a river bank beetle new to Ireland. *Ir. Nat. J.* **23**: 338-339.

—— (1990) *Dinaraea angustula* (Gyllenhal) (Coleoptera: Staphylinidae), a cultivated land beetle confirmed as Irish. *Ir. Nat. J.* **23**: 340.

—— (1991) *Gyrophaena strictula* Erichson (Coleoptera: Staphylinidae), a beetle new to Ireland associated with *Daedalea quercina* (L.) (Hymenomycetes: Polyporaceae). *Ir. Nat. J.* **23**: 504.

—— (1991) *Atheta aeneicollis* (Sharp) (Coleoptera: Staphylinidae), a mycetophilous beetle new to Ireland. *Ir. Nat. J.* **23**: 506.

—— (1992) *Atheta strandiella* Brundin (Coleoptera: Staphylinidae), a necrophilous beetle new to Ireland. *Ir. Nat. J.* **24**: 79.

—— (1994) *Atheta liliputana* (Brisout) (Coleoptera: Staphylinidae), a marsh beetle new to Ireland. *Ir. Nat. J.* **24**: 413.

—— (1995) Habitat records of *Amischa* C. G. Thomson (Staphylinidae: Aleocharinae) from Ireland. *The Coleopterist* **3**: 77-79.

—— (1995) Faunal indicators of environmentally sensitive grassland management. Pp 194-203. *In* Jeffrey, D. W., Jones, M. B. and McAdam, J. H. (eds) *Irish grasslands-their biology and management.* Royal Irish Academy, Dublin. (Staphylinidae)

Good, J. A. (1996) Evaluating the success of soil and habitat restoration using soil fauna as indicators. Pp 182-194. *In* Giller, P. S. and Myers, A. A. (eds) *Disturbance and recovery in ecological systems.* Royal Irish Academy, Dublin.

—— (1997) *Proteinus atomarius* Erichson (Coleoptera: Staphylinidae), sapromycetophilous beetle confirmed in Ireland. *Ir. Nat. J.* **25**: 452-453.

—— (1997) *Gyrophaena angustata* (Stephens) (Coleoptera: Staphylinidae), a beetle new to Ireland associated with *Polyporus squamosus* Huds. ex Fr. (Hymenomycetes: Polyporaceae). *Ir. Nat. J.* **25**: 453.

—— (1998) The identification and habitat of micropterous *Diglotta mersa* (Haliday) and *D. sinuaticollis* (Mulsant and Rey) (Staphylinidae). *The Coleopterist* **7**: 73-76.

—— (1998) The potential role of ecological corridors for habitat conservation in Ireland: a review. *Irish Wildlife Manuals*. **No. 2**. 72pp.

—— (1999) Recolonisation by Staphylinidae (Coleoptera) of lead mine tailings at Silvermines, Co. Tipperary, Ireland. *Bulletin of the Irish Biogeographical Society* **23**: 128-140.

—— (1999) Recolonisation by Staphylinidae (Coleoptera) of old metalliferous tailings and mine soils in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **99**B: 27-35.

—— (1999) Intertidal aerobic sandflats as a habitat for marine Coleoptera (Carabidae: Heteroceridae, Staphylinidae) in Ireland. *Ir. Nat. J.* **26** (1998): 73-80.

—— (2002) Size, isolation and ancient status in woodland: Staphylinidae, Carabidae and Lucanidae (Coleoptera) at Rindoon Wood, Co. Roscommon, Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 182-195.

—— (2004) Calcareous grassland as a habitat for Staphylinidae (Coleoptera) in the Burren National Park, Co. Clare, Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 147-162.

—— (2004) Lake-shore fens and reedbeds as a habitat for Staphylinidae and Carabidae (Coleoptera) in the east Burren area of Co. Clare, Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 163-188.

—— (2004) *Cypha tarsalis* (Luze) (Staphylinidae) new to Ireland. *The Coleopterist* **13**: 138.

—— (2005) Spring-fed fen as a habitat for Staphylinidae (Coleoptera) at Pollardstown Fen, Co. Kildare, Ireland, with an assessment of staphylinid sampling by Malaise traps. *Bulletin of the Irish Biogeographical Society* **29**: 213-241.

—— (2006) Estuarine riparian wetlands as a habitat for Staphylinidae and Carabidae (Coleoptera) on the Black Water Tributary of the River Suir, Co. Kilkenny, Ireland. *Bulletin of the Irish Biogeographical Society* **30**: 92-113.

—— (2007) Old non-native broadleaf trees as a potential biodiversity resource in Irish woodlands: Staphylinidae (Coleoptera) from Ballyseedy Wood, Co. Kerry. *Bulletin of the Irish Biogeographical Society* **31**: 3-19.

—— (2009) Local and regional studies of Cryptobiota: esoteric stamp collecting or essential ecology? *Bulletin of the Irish Biogeographical Society* **33**: 115-169.

—— (2011) Dispersal and colonisation by rove-beetles (Coleoptera: Staphylinidae) at a mine tailings grassland near Navan, Co. Meath, Ireland. *Bulletin of the Irish Biogeographical Society* **35**: 113-129.

Good, J. A. (2013) Reassessment of early nineteenth century Coleoptera records from Ireland based on the James Tardy Collection in the Dublin University Zoological Museum. *Bulletin of the Irish Biogeographical Society* **37**: 115-159.

—— (2014) A schistmelous specimen of *Chlaenius tristis* (Schaller) (Carabidae) from central Ireland. *The Coleopterist* **23**: 86-87.

—— (2014) *Eutheia schaumii* Kisenwetter (Staphylinidae) from Ireland. *The Coleopterist* **23**: 95-96.

—— (2016) *Carpelimus zealandicus* (Sharp) (Staphylinidae) from south-west Ireland. *The Coleopterist* **25**: 113.

—— (2016) *Ochthephilus andalusiacus* (Fagel) (Staphylinidae) from Ireland. *The Coleopterist* **25**: 114.

—— (2018) Rove-beetles (Coleoptera: Staphylinidae) collected by an 'autocatcher' near Clonmacnoise (County Offaly) and Killarney (County Kerry), Ireland. *Bulletin of the Irish Biogeographical Society* **42**: 173-187.

—— (2019) Winter activity of rove beetles (Coleoptera: Staphylinidae) in fields and field margins in Ireland and Denmark. *Bulletin of the Irish Biogeographical Society* **43**: 133-145.

Good, J. A. and Anderson, R. (2017) Additions, deletions and corrections to the Staphylinidae in the Irish Coleoptera annotated list, with a revised check-list of Irish species. *Bulletin of the Irish Biogeographical Society* **41**: 178-234.

Good, J. A. and Ashe, P. (1990) Records of four species of false powder-post beetle (Coleoptera: Bostrichidae: *Dinoderus*) imported into Ireland. *Ir. Nat. J.* **23**: 326-327.

Good, J. A. and Boxshall, M. (2014) Reassessment of early nineteenth century Tardy records in the Dublin University Zoological Museum: Part 2 (Coleoptera, Lepidoptera, Neuroptera and biographical note). *Bulletin of the Irish Biogeographical Society* **38**: 263-271.

Good, J. A. and Butler, F. T. (1995) Woodland polypore fungi and other microhabitats of Staphylinidae (Coleoptera) at Powerscourt Demense, Co. Wicklow, Ireland. *Bulletin of the Irish Biogeographical Society* **18**: 22-29.

—— (1996) Ancient pasture as a habitat for Staphylinidae (Coleoptera) at the Curragh, Co. Kildare, Ireland. *Bulletin of the Irish Biogeographical Society* **19**: 151-158.

—— (1998) Coastal lagoon shores as a habitat for Staphylinidae and Carabidae (Coleoptera) in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 22-65.

—— (1999) Recolonization by Staphylinidae (Coleoptera) of copper mine tailings at Avoca and Berehaven mines, Ireland. *Bulletin of the Irish Biogeographical Society* **23**: 71-81.

—— (2000) Coastal lagoon and saline lake shores as a habitat for Staphylinidae, Carabidae and Pselaphidae (Coleoptera) in Ireland. Part 2. *Bulletin of the Irish Biogeographical Society* **24**: 111-141.

—— (2001) Turlough pastures as a habitat for Staphylinidae and Carabidae (Coleoptera) in south-east Galway and north Clare, Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 74-94.

Good, J. A. and Dorman, J. A. (1992) Dispersal of *Philonthus cognatus* Stephens (Coleoptera: Staphylinidae) and its occurrence in garfish guts (*Belone belone* (L.)). *Ir. Nat. J.* **24**: 171.

Good, J. A. and Dorman, J. A. (2010) Rove-beetles (Coleoptera: Staphylinidae) from north-west Galicia compared with the Irish fauna: Lusitanian glacial refuge hypothesis not supported. *Bulletin of the Irish Biogeographical Society* **34**: 65-84.

—— (2020) Relative abundance of rove-beetles (Coleoptera: Staphylinidae) from grasslands and pastures in Ireland and Galicia, Spain. *Bulletin of the Irish Biogeographical Society* **44**: 205-235.

Good, J. A. and Giller, P. S. (1988) Impact of crop management on staphylinid diet variability: a preliminary evaluation of electrophoretic prey detection. *Proceedings 4th European Ecology Symposium, Ecological Implications of Contemporary Agriculture*, Wageningen. *Ecological Bulletin* **39**: 94-96.

—— (1988) A contribution to a check-list of Staphylinidae (Coleoptera) of potential importance in the integrated protection of cereal and grass crops. Pp 81-98. *In* Cavalloro, R. (ed.) *Integrated Crop Protection in Cereals.* Proceedings of CEC experts meeting, Littlehampton, 1986.

—— (1990) Staphylinid beetles (Coleoptera) from cereal and grass fields in south-west Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 2-22.

—— (1991) The impact of cereal and grass management on staphylinid (Coleoptera) assemblages in south west Ireland. *Journal of Applied Ecology* **28**: 810-826.

Good, J. A. and Hume, H. (1991) *Silvanus bidentatus* (F.) (Coleoptera: Silvanidae) imported into Ireland in bark of timber pallets. *Ir. Nat. J.* **23**: 463-464.

Good, J. A. and Jagers op Akkerhuis, G. J. A. M. (2005) Interpreting breeding habitat from the presence of adults when Staphylinidae (Coleoptera) are used in biodiversity assessments. *Bulletin of the Irish Biogeographical Society* **29**: 194-212.

Good, J. A. and Linnie, M. (1990) The history of the early nineteenth century Coleoptera collection of James Tardy at Trinity College, Dublin, and the validity of records based on his collection. *Ir. Nat. J.* **23**: 298-305.

Good, J. A. and McAree, D. (1991) *Chlorophorus fainanensis* Pic (Coleoptera: Cerambycidae), a wood-boring beetle imported in the wood of a pepper pot. *Ir. Nat. J.* **23**: 423.

Good, J. A. and O'Connor, J. P. (2004) *Cypha hanseni* Palm (Staphylinidae) new to Ireland from the E. F. Bullock Collection. *The Coleopterist* **13**: 139.

—— (2009) *Paederus littoralis* Gravenhorst, *Quedius longicornis* Kraatz (Staphylinidae) and *Lytta vesicatoria* (Linnaeus) (Meloidae) to be deleted from the Irish list, and the validity of R. E. Dillon Coleoptera records. *The Coleopterist* **18**: 209-211.

—— (2010) *Amarochara umbrosa* (Erichson) (Staphylinidae) from Killarney, not previously recorded from Ireland. *The Coleopterist* **19**: 23.

Good, J. A. and Sleeman, D. P. (1988) Extensions in range of two pest species: *Leptocera caenosa* (Rondani) (Diptera: Sphaeroceridae) and *Alphitobius diaperinus* (Panzer) (Coleoptera: Tenebrionidae). *Ir. Nat. J.* **22**: 501.

Good, J. A. and Smiddy, P. (2007) *Carpelimus halophilus* (Kiesenwetter) (Coleoptera: Staphylinidae), a salt marsh beetle new to Ireland. *Ir. Nat. J.* **28** (2006): 342-343.

Good, J. A. and Speight, M. C. D. (1991) Sites of international and national importance for invertebrate fauna - a definition proposed for use in site surveys. *Bulletin of the Irish Biogeographical Society* **14**: 48-53. (Col., Dipt.)

Good, J. A. and Wistow, S. (1997) Recolonisation by Staphylinidae (Coleoptera) of restored meadows on rehabilitated cement kiln mounds near Drogheda, Co. Louth, Ireland. *Bulletin of the Irish Biogeographical Society* **20**: 127-135.

Gormally, M. J. (1993) Laboratory investigations of *Aphodius* beetles (Scarabaeidae) as biological control agents of the cattle lungworm, *Dictyocaulus viviparus* (Nematoda: Dictyocaulidae). *Biocontrol Science and Technology* **3**: 499-502.

—— (1993) The effect of dung beetle activity on the discharge of *Pilobolus* sporangia in cattle faeces. *Medical and Veterinary Entomology* **7**: 197-198.

Gormally, M. J. and Fairley, J. S. (1982) Food of otters *Lutra lutra* in a freshwater lough and an adjacent brackish lough in the west of Ireland. *Journal of Zoology, London* **197**: 313-321. (*Dytiscus marginalis*)

Grainger, J. P. and Fairley, J. S. (1978) Studies on the biology of the pygmy shrew *Sorex minutus* in the west of Ireland. *Journal of Zoology, London* **186**: 109-141.

Grant, F. T. (1943) (Note on *Otiorrhynchus porcatus*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1943-44**: 2.

Green, J. M., Batley, J., Peacock, L., Carter, P., Glen, D. M. and Karp, A. (2001) The molecular ecology of willow beetles (*Phyllodecta* spp.). *Antenna* **25**: 254-257.

Griffith, C. F. (1947) Dell aberration of *Chrysolina polita* L. (Col., Chrysomelidae). *Entomologist's mon. Mag.* **83**: 186.

Halbert, J. N. (1892) *Malachius bipustulatus*, L., in Ireland. *Ir. Nat.* **1**: 125.

—— (1893) *Lema erichsoni*, Suffr., at Santry, Co. Dublin. *Ir. Nat.* **2**: 252.

—— (1893) A beetle new to Ireland, *Haemonia appendiculata*, Panz. in Co. Dublin. *Ir. Nat.* **2**: 148.

—— (1893) Coleoptera in Co. Dublin. *Ir. Nat.* **2**: 229.

—— (1893) (Exhibited *Malachius bipustulatus*). *Ir. Nat.* **2**: 51.

—— (1893) (Exhibited *Haemonia appendiculata*). *Ir. Nat.* **2**: 146.

—— (1893) *Haemonia appendiculata*, Panz., in Ireland. *Entomologist's mon. Mag.* **29**: 116.

—— (1893) *Lema erichsoni*, Suffr. in Co. Dublin. *Entomologist's mon. Mag.* **29**: 215.

—— (1894) Coleoptera at Bray. *Ir. Nat.* **3**: 114.

—— (1894) Coleoptera in Co. Dublin. *Ir. Nat.***3**: 203-204.

—— (1894) Coleoptera at Courtown, Co. Wexford. *Ir. Nat.* **3**: 224.

—— (1894) *Micralymma brevipenne*, Gyll., at Mornington, Co. Meath. *Ir. Nat.* **3**: 176.

—— (1894) (Exhibited Coleoptera). *Ir. Nat.* **3**: 21.

—— (1895) (Exhibited Coleoptera). *Ir. Nat.* **4**: 74.

—— (1895) Coleoptera from Co. Dublin. *Ir. Nat.* **4**: 78-79.

—— (1895) Coleoptera from the North of Ireland. *Ir. Nat.* **4**: 79.

—— (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895, Coleoptera. *Ir. Nat.* **4**: 259-262.

—— (1895) Insects collected in the Fermoy and Blackwater District. *Ir. Nat.* **4**: 45-49.

—— (1895) Coleoptera from Castlebellingham. *Ir. Nat.* **4**: 295.

—— (1895) Coleoptera collected in Co. Carlow. *Ir. Nat.* **4**: 329-331.

—— (1896) (*Otiorrhynchus auropunctatus* in Ireland). *Ir. Nat.* **5**: 24.

—— (1896) Insects collected on Lugnaquilla and in Glenmalur Valley, Co. Wicklow. *Ir. Nat.* **5**: 210-212. (Col., Hem.)

Halbert, J. N. (1896) Notes on the fauna and flora of Clonbrock, Co. Galway. Coleoptera. Pp 230-233. *In* McWeeney, E. J. and Praeger, R. L. *Ir. Nat.* **5**: 217-234.
—— (1897) *Agabus arcticus*, Payk., a water-beetle new to Ireland. *Ir. Nat.* **6**: 86.
—— (1897) (Exhibited *Claviger testaceus*). *Ir. Nat.* **6**: 277.
—— (1897) (Coleoptera from Rathdrum). *Ir. Nat.* **6**: 308.
—— (1898) Beetles collected at Mote Park, Mount Talbot, and Clonbrock. *Ir. Nat.* **7**: 90-95.
—— (1898) Impressions of Achill. By members of an Easter party. Coleoptera. *Ir. Nat.* **7**: 137-138.
—— (1898) Coleoptera from Valentia Island. *Ir. Nat.* **7**: 149.
—— (1898) Irish Field Club Union. Kenmare Conference. Coleoptera. *Ir. Nat.* **7**: 211-216.
—— (1900) The beetles of the Foyle District. *Ir. Nat.* **9**: 21.
—— (1900) Some additions to the beetles of the Dublin District. *Ir. Nat.* **9**: 278-284.
—— (1904) Irish Field Club Union. Sligo Conference. Coleoptera. *Ir. Nat.* **13**: 194-196.
—— (1907) Contributions to the Natural History of Lambay. Coleoptera. *Ir. Nat.* **16**: 47-52.
—— (1907) Irish Field Club Union. Cork Conference. Terrestrial Coleoptera. *Ir. Nat.* **16**: 290-293.
—— (1908) Coleoptera. Pp 166-170. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.
—— (1908) County Kerry Insects. *Ir. Nat.* **17**: 19-20.
—— (1908) (Exhibited *Thamiaraea hospita*). *Ir. Nat.* **17**: 63.
—— (1909) (Coleoptera from Western Ireland). *Ir. Nat.* **18**: 98.
—— (1910) Notes on new Irish beetles. *Ir. Nat.* **19**: 30-33.
—— (1910) (Exhibited *Cryptophagus bimaculatus*). *Ir. Nat.* **19**: 55.
—— (1910) *Cryptophagus bimaculatus*, Panz., and other Coleoptera at Lough Neagh. *Entomologist's mon. Mag.* **46**: 62-66.
—— (1912) (Exhibited *Hylesinus crenatus*). *Ir. Nat.* **21**: 61.
—— (1913) (Exhibited *Platyderus ruficollis*). *Ir. Nat.* **22**: 17.
—— (1913) Insects on Great Blasket and in West Kerry. *Ir. Nat.* **22**: 62.
—— (1915) *Salpingus ater* in Ireland. *Ir. Nat.* **24**: 62.
—— (1921) (Exhibited *Trigonogenus globulus*). *Ir. Nat.* **30**: 38.
—— (1922) *Magdalis carbonaria* and other insects at Powerscourt. *Ir. Nat.* **31**: 8-10.
—— (1924) Coleoptera in the Dublin District. *Ir. Nat.* **33**: 131-134.
—— (1936) The ant *Lasius fuliginosus* Latr., in County Wexford. *Ir. Nat. J.* **6**: 76. (*Amara fulva*)
—— (1937) *Barypithes curvimanus* Duval in Ireland. An addition to the British list. *Entomologist's mon. Mag.* **73**: 54-55.
—— (1937) *Pachylopus* (*Saprinus*) *maritimus* Steph. ab. *strigosus* nov. *Entomologist's mon. Mag.* **73**: 68.
—— (1937) Records of Irish Coleoptera. *Entomologist's mon. Mag.* **73**: 82-87.
Haliday, A. H. (1837) Notes about *Cillenum laterale* and a submarine species of Aleocharidae. *The Entomological Magazine* **4**: 251-253.
—— (1841) Notes on the primary divisions of *Carabidae. Entomologist* **1**: 185-186.

Haliday, A. H. (1841) Irish species of *Mylaechus*. *Entomologist* **1**: 190.
—— (1841) Notes on the Staphylinidae. *Entomologist* **1**: 186-188. (Col., Hem., Hym.)
—— (1855) Descriptions of insects figured, and references to plates illustrating the notes on Kerry insects. *The Natural History Review (Proceedings of Societies)* **2**: 59-64.
—— (1855) (ed. Stewart, S. A.). Notes on Irish Coleoptera, *Proceedings of the Belfast Naturalists' Field Club* **2**. Appendix VIII, 211-223.
Halmschlager, E., Ladner, C., Zabransky, P. and Schopf, A. (2007) First record of the wood boring weevil, *Pentarthrum huttoni*, in Austria (Coleoptera: Curculionidae). *Journal of Pest Science* **80**: 59-61.
Hammond, P. M. (1971) Notes on British Staphylinidae 1. - The status of *Olophrum nicholsoni* Donisthorpe with notes on the other British species of *Olophrum* (Col., Staphylinidae). *Entomologist's mon. Mag.* **106** (1970): 165-170.
—— (1971) Notes on British Staphylinidae 2. - On the British species of *Platystethus* Mannerheim, with one species new to Britain. *Entomologist's mon. Mag.* **107**: 93-111.
—— (1972) Notes on British Staphylinidae 3. - The British species of *Sepedophilus* Gistel (*Conosomus* Auctt). *Entomologist's mon. Mag.* **108** (1972): 130-165.
—— (1980) Staphylinidae (Coleoptera) in Ireland, 1: Micropeplinae, Proteininae, Omaliinae and Piestinae. *Ir. Nat. J.* **20**: 133-140.
—— (1982) On the British species of *Phacophallus* Coiffait (Col., Staphylinidae). *Entomologist's mon. Mag.* **118**: 231-232.
Hammond, P. M., Marshall, J. E., Cox, M. L., Jessop, L., Garner, B. H. and Barclay, M. V. L. (2019) British Coleoptera Larvae: a guide to the families and major subfamilies. *Handbooks for the Identification of British Insects* **4**(1a): 280pp.
Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263.
Hannigan, E., Mangan, R. and Kelly-Quinn, M. (2011) Evaluation of the success of mountain blanket bog pool restoration in terms of aquatic macroinvertebrates. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 95-105.
Hansen, M. (1982) Revisional notes on some European *Helochares* Muls. (Coleoptera: Hydrophilidae). *Entomological Scandinavica* **13**: 201-211.
Harding, P. T. (1973) The occurrence of *Eurynebria complanata* (L.) (Coleoptera: Carabidae) in Ireland. *Ir. Nat. J.* **17**: 418-419.
Hardy, J. R. (1869) *Eros affinis* bred. *Entomologist's mon. Mag.* **6**: 60.
—— (1871) Duration of the larval state in *Eros*. *Entomologist's mon. Mag.* **7**: 207.
—— (1872) *Tachyporus nitidicollis* in a midland County. *Entomologist's mon. Mag.* **8**: 289.
—— (1897) The Coleoptera of Rathlin Island. *Ir. Nat.* **6**: 187-188.
Harrington, R., Carroll, P., Carty, A. H., Keohane, J. and Ryder, C. (2007) Integrated Constructed Wetlands: concept, design, site evaluation and performance. *International Journal of Water* **3**: 243-256.
Harrison, T. D. (1995) *Geodromicus nigrita* (Müller, P. W. J.) (Staphylinidae): a second Irish record. *The Coleopterist* **3**: 80.

Haughton, J. (1854-55) On the Coleoptera infesting granaries. *Proceedings of the Natural History Society of Dublin* **1**: 153-154 & *The Natural History Review (Proceedings of Societies)* **2**: 14-15.

Haughton, W. (1896) (Exhibited *Tribolium ferrugineum*). *Ir. Nat.* **5**: 245.

Haukeland, S. and Lola-Luz, T. (2010) Efficacy of the entomopathogenic nematodes *Steinernema kraussei* and *Heterorhabditis megidis* against the black vine weevil *Otiorhynchus sulcatus* in open field-grown strawberry plants. *Agricultural and Forest Entomology* **12**: 363-369.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202.

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215.

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

Healy, B. (1997) Long-term changes in a brackish lagoon, Lady's Island Lake, South-East Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 33-51.

Healy, B., Bates, R. and McGrath, D. (1982) Marine fauna of County Wexford - 5. Lady's Island Lake. *Ir. Nat. J.* **20**: 510-526.

Healy, B. and McGrath, D. (1998) Marine fauna of County Wexford, Ireland: the fauna of rocky shores and sandy beaches. *Irish Fisheries Investigations New Series* **2**: 1-71.

Healy, B. and Oliver, G. A. (1998) Irish coastal lagoons: summary of a survey. *Bulletin of the Irish Biogeographical Society* **21**: 116-150.

Heijerman, T. and Alders, K. (2001) *Cionus nigritarsis*, a weevil new to The Netherlands, with notes on the occurrence and distribution of *C. thapsus* and *C. hortulanus* (Coleoptera: Curculionidae). *Entomologische Berichten* **61**: 69-74.

Heijerman, T. and Drost, M. B. P. (2015) *Exapion ulicis*, een nieuwe snuitkever voor de Nederlandse fauna (Coleoptera: Brentidae). *Nederlandse Faunistische Mededelingen* **45**: 39-49.

Heijerman, T. and Hodge, P. J. (2005) Bisexual populations of *Otiorhynchus rugifrons* (Coleoptera: Curculionidae). *Entomologische Berichten* **65**: 66-69.

Helden, A. (2005) *Polydrusus* (*Chrysophis*) *formosus* (Mayer, 1779) (Coleoptera: Curculionidae): a weevil new to Ireland. *Ir. Nat. J.* **28**: 173-174.

—— (2010) Unusual Irish field record of the stored product pest, *Ahasverus advena* (Waltz) (Coleoptera: Silvanidae). *Ir. Nat. J.* **30** (2009): 140-141.

Helden, A. J., Anderson, A., Finn, J. and Purvis, G. (2015) The response of sward-dwelling arthropod communities to reduced grassland management intensity in pastures. *Irish Journal of Agricultural and Food Research* **54**: 107-120.

Henegouwen, A. van Berge (1986) Revision of the European species of *Anacaena* Thomson (Coleoptera: Hydrophilidae). *Entomological Scandinavica* **17**: 393-407. (*A. limbata* (Fabr.), *A. globulus* (Paykull))

Heyworth, M. F. (2004) Supplementing the distribution map: records from a collection of British Coleoptera. *Entomologist's mon. Mag.* **140**: 233-242. (*Aegialia arenaria* (Fabr.))

Hickin, N. E. (1952) *Euophryum confine* Broun, The Wood-Boring Weevil, in Ireland. *Entomologist's mon. Mag.* **88**: 157.

—— (1953) Death Watch Beetle in Ireland. *Entomologist* **86**: 138.

—— (1957) House Longhorn Beetle (*Hylotrupes bajulus* L.) in Ireland. *Entomologist's mon. Mag.* **93**: 96.

Hodge, P. J. (1993) 1992 Annual exhibition. Coleoptera. *British Journal of Entomology and Natural History* **6**: 73-77. (Alexander, K. N. A. and Foster, A. P.: interesting species from Northern Ireland)

—— (1994) 1993 annual exhibition. Coleoptera. *British Journal of Entomology and Natural History* **7**: 167-173. (Owen, J. A.: several Irish species)

—— (1996) A second site for *Rhynchaenus calceatus* (Germar) (Curculionidae) in Co. Offaly, Ireland. *The Coleopterist* **5**: 24.

—— (1998) 1997 annual exhibition. Coleoptera. *British Journal of Entomology and Natural History* **11**: 101-110. (Morris, M. G.: *Datonychus arquatus* (Herbst) - Lough Neagh; *Ellescus scanicus* (Paykull) - dubious)

—— (2007) 2006 Annual Exhibition. Coleoptera. *British Journal of Entomology and Natural History* **20**: 174-179. (Alexander, K. N. A.: *Ampedus pomorum*, *Malthodes guttifer*, *Phloiophilus edwardsi*, *Orchesia micans*, *O. minor*, *Inonotus radiatus*, *Abdera flexuosa*; Telfer, M. G.: *Macrorhyncolus littoralis* - new to Ireland)

—— (2012) Coleoptera. *British Journal of Entomology and Natural History* **25**: 171. (*Tachyporus obtusus*, *Paraphotistus nigricornis* (second Irish record))

Hogan, A. R. (1854) Catalogue of Coleoptera found in the neighbourhood of Dublin. *The Natural History Review* **1**: 32-34, 88-91, 98-101.

—— (1855) (*Diglossa mersa*). *The Natural History Review (Proceedings of Societies)* **2**: 124.

—— (1855) (Exhibited Coleoptera). *The Natural History Review (Proceedings of Societies)* **2**: 22.

—— (1856) First Supplement to the Catalogue of Coleoptera found in the neighbourhood of Dublin. *The Natural History Review (Proceedings of Societies)* **3**: 72-73.

Holland, D. G. (1972) A key to the larvae, pupae and adults of the British species of Elminthidae. *Scientific Publications of the Freshwater Biological Association* **26**: 1-58.

Horgan, F. G. (2011) Outbreak of an invasive paropsine beetle in south-west Ireland: preference, performance and damage to *Eucalyptus*. *Journal of Applied Entomology* **135**: 621-633.

Horgan, F. G. and Berrow, S. D. (2004) Hooded crow foraging from dung pats: implications for the structure of dung beetle assemblages. *Biology and Environment: Proceedings of the Royal Irish Academy* **104**B: 119-124.

Houston, W. W. K. and Luff, M. L. (1983) The identification and distribution of the three species of *Patrobus* (Coleoptera: Carabidae) found in Britain. *Entomologist's Gazette* **34**: 283-288.

Hubble, D. (2012) Keys to the adults of seed and leaf beetles of Britain and Ireland. FSC Publications, Telford.

Huggins, H. C. (1953) *Strangalia aurulenta* (F.) in West Cork (Col., Cerambycidae). *Entomologist* **86**: 40.

Huggins, H. C. (1953) Some notes on *Strangalia aurulenta* Fab. *Entomologist's Rec. J. Var.* **65**: 149-150.

—— (1959) *Cetonia aurata* ab *nigra* (Col. Melolonthidae) in the Isles of Scilly. *Entomologist* **92**: 26.

Hutchins, D. and Hancock, E. G. (2005) Some early records of *Pelophila borealis* Paykull (Col.: Carabidae) on the Scottish mainland. *Entomologist's Rec. J. Var.* **117**: 49-50.

Hutton, S. A. and Giller, P. S. (2003) The effects of intensification of agriculture on northern temperate dung beetle communities. *Journal of Applied Ecology* **40**: 994-1007.

—— (2004) Intra- and interspecific aggregation of north temperate dung beetles on standardised and natural dung pads: the influence of spatial scale. *Ecological Entomology* **29**: 594-605.

Hyatt, K. H. (1990) Mites associated with terrestrial beetles in the British Isles. *Entomologist's mon. Mag.* **126**: 133-147.

Ienistea, M. A. (1978) Hydradephaga und Palpicornia. Pp 291-314. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Illies, J. (1978) Helodidae und Psephenidae. Pp 323-325. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Incekara, U., Mart, A. and Erman, O. (2005) Some notes on two newly recorded aquatic Coleoptera (Hydrophilidae, Helophoridae) species from Turkey. *F. Ü. Fen ve Mühendislik Bilimleri Dergisi* **17**: 449-454. (*Hydrobius fuscipes*)

InvertebrateIreland Online (2006) Irish Coleoptera (Beetles). National Museums of Northern Ireland.
<http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=1>

Irwin, A. G. (1975) Insects from a deserted bat colony in Co. Down, including a beetle new to Ireland. *Ir. Nat. J.* **18**: 226-227.

—— (1976) *Epuraea melanocephala* (Marsh.) (Col., Nitidulidae) new to Ireland. *Entomologist's mon. Mag.* **111** (1975): 230.

Jäch, M. A. (1988) Revisional notes on the *Hydraena riparia* species complex (Coleoptera: Hydraenidae). *Aquatic Insects* **10**: 125-139.

Jameson, H. L. (1893) *Timarcha tenebricossa*, Fab. in Co. Waterford. *Ir. Nat.* **2**: 199.

—— (1893) (Coleoptera from Armagh). *Ir. Nat.* **2**: 51.

Jameson, W. E. and Bonaparte-Wyse, L. H. (1928) A fortnight's entomology in Co. Waterford. *Ir. Nat.* **32**: 9-17.

Janson, E. W. (1856) Coleoptera. New British species noticed in 1855. *The Entomologist's Annual* **1856**: 82-92.

—— (1859) Coleoptera. New British species noticed in 1858. *The Entomologist's Annual* **1859**: 118-144.

—— (1863) *British beetles. Transferred from Curtis's British entomology*. Bell and Daldy, London.

Janson, O. E. (1914) Coleoptera at Killarney. *Ir. Nat.* **23**: 38-40, 122.

—— (1915) Coleoptera exhibited on behalf of L.H. Bonaparte-Wyse. *Proceedings of the Entomological Society of London* **1915**: 117

—— (1920) Coleoptera in Co. Kerry. *Ir. Nat.* **29**: 1-6.

Janson, O. E. (1920) *Harpalus 4-punctatus* var. *montivagus* Reitt. in Ireland. *Entomologist's mon. Mag.* **56**: 14.

—— (1923) A rare beetle from Ireland (*Leistus montanus* Steph.). *Proceedings of the Royal Entomological Society of London* **1923**: 44.

—— (1924) Coleoptera at Lough Neagh (Co. Antrim) and Newcastle (Co. Down). *Ir. Nat.* **33**: 69-72.

Janson, O. E. (& Haliday, A. H.) (1858) Notes on various insects captured or observed in the neighbourhood of Dingle, Co. Kerry, in July, 1854. *The Natural History Review (Proceedings of Societies)* **2**: 50-55.

Janson, O. E. and Bonaparte-Wyse, L. H. (1924) Coleoptera from South Kerry. *Ir. Nat.* **33**: 125-128.

Jarvis, C. MacKechnie (1972) *Pterostichus aterrimus* (Herbst) and *Lebia cruxminor* (L.) (Col., Carabidae) in Co. Clare. *Entomologist's mon. Mag.* **107** (1971): 140.

Jaskuła, R. and Soszyńska-Maj, A. (2011) What do we know about winter active ground beetles (Coleoptera, Carabidae) in Central and Northern Europe? *Zookeys* **100**: 517-532.

Jessop, L. (1996) What is the distribution and ecology of *Atheta divisa* (Markel) (Staphylinidae). *The Coleopterist* **5**: 53.

Johnson, C. (1965) Taxonomic notes on British Coleoptera No. 1 - *Apion cerdo* Gerst. and its allies (Apionidae). *Entomologist* **98**: 80-82.

—— (1967) A revised and annotated British list of *Acrotrichis* (Col., Ptiliidae). *Entomologist* **100**: 132-136.

—— (1987) A revised check list of British *Acrotrichis* Motschulsky (Coleoptera: Ptiliidae). *Entomologist's Gazette* **38**: 229-242.

—— (1992) A bionomic review of the British Clambidae (Coleoptera). *Entomologist's Gazette* **43**: 67-71.

—— (1992) Additions and corrections to the British list of Coleoptera. *Entomologist's Rec. J. Var.* **104**: 305-310. (*Elodes elongata* Tournier)

—— (1993) *Provisional atlas of the Cryptophagidae-Atomariinae (Coleoptera) of Britain and Ireland.* Biological Records Centre, Huntingdon.

—— (1997) Revision of Bullock's Irish Clambidae, with two species new to Ireland. *The Coleopterist* **6**: 53-55.

—— (2002) Provisional atlas of the Cryptophagidae: Atomariinae (Coleoptera) of Britain and Ireland: supplement to the 1993 atlas and *Atomaria turgida* Erichson newly recorded for the fauna. *Entomologist's Gazette* **53**: 183-189.

—— (2003) Further notes on Palaearctic and other Ptiliidae (Coleoptera). *Entomologist's Gazette* **54**: 55-70. (*Acrotrichis parva*)

—— (2004) British Coleoptera collections in the Manchester Museum. *The Coleopterist* **13**: 5-21.

Johnson, W. F. (1885) Strange locality for *Carabus monilis*. *Entomologist's mon. Mag.* **22**: 113.

—— (1887) Adephaga in the Armagh District. *Entomologist's mon. Mag.* **24**: 16-17.

—— (1887) Hydrophilidae in the Armagh District. *Entomologist's mon. Mag.* **24**: 156.

Johnson, W. F. (1888) Coleoptera at Armagh, etc., in 1887. *Entomologist's mon. Mag.* **24**: 193-196.
—— (1888) Coleoptera at Armagh. *Entomologist's mon. Mag.* **25**: 18.
—— (1888) *Megacronus cingulatus* at Armagh. *Entomologist's mon. Mag.* **25**: 18.
—— (1888) Coleoptera at Carlingford. *Entomologist's mon. Mag.* **25**: 139-140.
—— (1888) Notes on the Geodephaga of Ireland. *Proceedings of the South London Entomological and Natural History Society* **1888**: 77-80.
—— (1889) *Leistotrophus nebulosus* in Ireland. *Entomologist's mon. Mag.* **25**: 239.
—— (1889) Coleoptera at Armagh in 1888. *Entomologist's mon. Mag.* **25**: 259-260.
—— (1889) Irish Staphylinidae. *Proceedings of the South London Entomological and Natural History Society* **1889**: 179-183.
—— (1889) Additions to the List of Irish Coleoptera. *Entomologist's mon. Mag.* **25**: 285.
—— (1890) Coleoptera in the North of Ireland. *Entomologist's mon. Mag.* **26**: 84-85.
—— (1890) Additions to the Irish List of Coleoptera. *Entomologist's mon. Mag.* **26**: 295.
—— (1890) (Notes on Collecting, etc.) Coleoptera. *Entomologist's Rec. J. Var.* **1**: 104.
—— (1890) Notes of the Season of 1890 (Coleoptera). *Entomologist's Rec. J. Var.* **1**: 309-310.
—— (1891) Coleoptera and Lepidoptera at Bundoran, Ireland. *Entomologist's mon. Mag.* **27**: 75-77.
—— (1891) Notes on Coleoptera in the North of Ireland. *Entomologist's mon. Mag.* **27**: 223-224.
—— (1892) The beetles of the Belfast District. *Proceedings of the Belfast Naturalists' Field Club* **3**: 402-407.
—— (1892) The Coleoptera of the Armagh District. *Ir. Nat.* **1**: 14-18, 36-38, 57-59, 77-78, 97-99, 120-123, 142-144.
—— (1892) Abnormal Philonthi. *Ir. Nat.* **1**: 104.
—— (1892) Coleoptera at Holywood, Co. Down. *Ir. Nat.* **1**: 18-19.
—— (1892) Coleoptera in the North of Ireland. *Entomologist's mon. Mag.* **28**: 134.
—— (1892) Notes on Coleoptera in the North of Ireland. *Entomologist's mon. Mag.* **28**: 213-214.
—— (1892) Coleoptera at Ardara, Co. Donegal. *Entomologist's mon. Mag.* **28**: 310-311.
—— (1893) Coleoptera at Ardara, Co. Donegal. *Ir. Nat.* **2**: 53-55.
—— (1894) *Pselaphus dresdensis*, etc., at Armagh. *Entomologist's mon. Mag.* **30**: 134-135.
—— (1895) *Dsychirius obscurus*, Gyll., at Lough Neagh. *Entomologist's mon. Mag.* **31**: 218.
—— (1895) *Dsychirius obscurus*, Gyll., at Lough Neagh. *Ir. Nat.* **4**: 224.
—— (1896) Swarm of *Geotrupes stercorarius*, L., at Poyntzpass. *Entomologist's mon. Mag.* **32**: 158.
—— (1897) Coleoptera at Poyntzpass. *Ir. Nat.* **6**: 85.
—— (1897) Entomological notes. *Ir. Nat.* **6**: 56-57.
—— (1897) Insect folk-lore. *Ir. Nat.* **6**: 86.
—— (1898) Notes on Irish Coleoptera. *Entomologist's Rec. J. Var.* **10**: 42-43.
—— (1899) *Cordyceps militarius*, Fr., on a beetle. *Ir. Nat.* **8**: 24.
—— (1899) *Bembidium paludosum*, Panz. at Lough Neagh. *Ir. Nat.* **8**: 207.
—— (1900) Notes on Irish Coleoptera. *Ir. Nat.* **9**: 70-73.

Johnson, W. F. (1900) Additional records of Irish Coleoptera. *Ir. Nat.* **9**: 131, 182.
—— (1902) *Bembidium argenteolum*, Ahr., at Lough Neagh. *Entomologist's mon. Mag.* **38**: 218.
—— (1902) *Monochammus confusor* at Belfast. *Ir. Nat.* **11**: 173.
—— (1902) Coleoptera. Pp 205-213. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.
—— (1903) *Silpha subrotundata*, Steph., a distinct species. *Entomologist's mon. Mag.* **39**: 96-97.
—— (1903) Coleoptera in Armagh and Down in 1902. *Entomologist's mon. Mag.* **39**: 99-100.
—— (1904) Notes on Coleoptera. *Ir. Nat.* **13**: 261.
—— (1904) Water beetles in Co. Down. *Ir. Nat.* **13**: 93.
—— (1906) Beetles from three Counties. *Ir. Nat.* **15**: 74-75.
—— (1906) Coleoptera from Co. Fermanagh. *Ir. Nat.* **15**: 139-142.
—— (1906) *Paederus caligatus* at Wexford. *Ir. Nat.* **15**: 14.
—— (1906) Notes on Irish Coleoptera. *Entomologist's mon. Mag.* **42**: 11-12, 89.
—— (1907) Notes on Coleoptera collected during 1906. *Ir. Nat.* **16**: 201-203.
—— (1909) A day with the water beetles at Armagh. *Entomologist's mon. Mag.* **45**: 85-86.
—— (1909) *Rhagium bifasciatum* in Co. Leitrim. *Ir. Nat.* **18**: 55.
—— (1909) Additional records of Irish Coleoptera. *Ir. Nat.* **18**: 213-214.
—— (1910) Irish Field Club Union. Rosapenna Conference. Coleoptera. *Ir. Nat.* **19**: 179.
—— (1910) Grain beetles at Belfast. *Ir. Nat.* **19**: 139.
—— (1910) Abnormal Coleoptera. *Ir. Nat.* **19**: 240.
—— (1912) *Liodes* (*Anisotoma*) *curta*, Fairm., in Ireland. *Entomologist's mon. Mag.* **48**: 287.
—— (1913) Two beetles from Co. Louth. *Ir. Nat.* **22**: 202.
—— (1913) Longicorn at Poyntzpass. *Ir. Nat.* **22**: 203.
—— (1913) The food of *Silpha subrotundata*. *Ir. Nat.* **22**: 234.
—— (1914) Coleoptera collected by the late H.L. Orr. *Ir. Nat.* **23**: 14-16.
—— (1915) *Callidium violaceum* introduced in Belfast. *Ir. Nat.* **24**: 136.
—— (1915) *Dascillus cervinus* at Poyntzpass. *Ir. Nat.* **24**: 173.
—— (1916) Entomological notes for South Boyne. *Ir. Nat.* **25**: 172.
—— (1916) *Aromia moschata* at Glengariff. *Ir. Nat.* **25**: 65.
—— (1916) *Grammoptera ruficornis* at Poyntzpass. *Ir. Nat.* **25**: 155.
—— (1916) Hymenoptera Aculeata in the Counties of Armagh and Donegal. *Ir. Nat.* **25**: 61-62. (Hym., Strep.)
—— (1919) *Athous hirtus* Herbst., a correction. *Ir. Nat.* **28**: 80.
—— (1920) *Dermestes vulpinus* in Belfast. *Ir. Nat.* **29**: 131.
—— (1920) *Necrobia rufipes* in Belfast. *Ir. Nat.* **29**: 25.
—— (1929) *Trox scaber* L. at Rostrevor. *Entomologist's mon. Mag.* **65**: 158.
Johnson, W. F. and Halbert, J. N. (1902) A list of the beetles of Ireland. *Proceedings of the Royal Irish Academy* (Ser. 3). **6**: 535-827. (summary of the records to 1902)

Johnson, W. F. and Halbert, J. N. (1912) Clare Island Survey. 28. Terrestrial Coleoptera. *Proceedings of the Royal Irish Academy* **31**(28): 24pp.

Jones, A. M. *et al.* (1997) 1996 Annual exhibition. *British Journal of Entomology and Natural History* **10**: 145-183. (McClenaghan, I.: records from Cos Antrim and Clare)

Jones, R. A. (1989) 1988 Annual exhibition. Coleoptera. *British Journal of Entomology and Natural History* **2**: 47. (McClenaghan, I.: Irish records)

—— (1991) 1990 Annual exhibition. Coleoptera. *British Journal of Entomology and Natural History* **4**: 38-43. (McClenaghan, I.: species from Donegal)

Joy, N. H. (1907) *Hydraena britteni*, sp. nov., a new British beetle. *Entomologist's mon. Mag.* **43**: 79-81.

—— (1909) A new method of collecting Coleoptera. *Entomologist's mon. Mag.* **45**: 1-3.

—— (1911) A note on Dr. Sharp new species of *Gabrius*. *Entomologist's mon. Mag.* **47**: 80-82.

—— (1911) A note on *Quedius attenuatus*, Gyll., var. *picipennis*, Heer. *Entomologist's mon. Mag.* **47**: 132-133.

—— (1911) Two Coleoptera new to Science. *Entomologist's mon. Mag.* **47**: 269-270.

—— (1913) Three new species of *Atheta. Entomologist's mon. Mag.* **49**: 57-58.

—— (1932) *A Practical Handbook of British Beetles.* Volumes I-II. Witherby, London (Reprinted 1976 by E. W. Classey Ltd, Faringdon).

Joy, N. H. and Tomlin, J. R. Le B. (1909) *Micropeplus caelatus*, Erichson: a British insect. *Entomologist's mon. Mag.* **45**: 149-150.

—— (1909) Current notes. (*Micropeplus caelatus*). *Entomologist's Rec. J. Var.* **21**: 219.

Jurado, G. B., Johnson, J. and Kelly-Quinn, M. (2007) A new record of *Dytiscus circumflexus* Fabricius 1801, from Co. Waterford, Ireland. *Bulletin of the Irish Biogeographical Society* **31**: 194-196.

Kaufmann, R. R. U. (1946) On some doubtful or rare Longicornia (Col.) included in the new check list of British insects. *Entomologist's mon. Mag.* **82**: 181-185. (See Uhthoff-Kaufmann)

—— (1947) Notes on the occurrence of *Hylotrupes bajulus* L. (Col., Cerambycidae) in the British Isles. *Entomologist's mon. Mag.* **83**: 37-39.

—— (1947) Notes on *Grammoptera holomelina* Pool and the colour forms of *G. ruficornis* F. (Col., Cerambycidae). *Entomologist's mon. Mag.* **83**: 10-12.

—— (1948) Notes on the distribution of the British Longicorn Coleoptera. *Entomologist's mon. Mag.* **84**: 66-85.

Kavanagh, J. A. and Harrison, S. S. C. (2014) The contribution of a drainage network to the spatial and temporal patterns of macroinvertebrate diversity across an agricultural headwater catchment. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 181-197.

Kelly, M. T. and Curry, J. P. (1985) Studies on the arthropod fauna of a winter wheat crop and its response to the pesticide methiocarb. *Pedobiologia* **28**: 413-421. (Coleoptera (named to species))

—— (1991) The influence of phenolic compounds on the suitability of three *Salix* species as hosts for the willow beetle *Phratora vulgatissima. Entomologia Experimentalis et Applicata* **61**: 25-32.

Kelly, M. T. and Curry, J. P. (1991) The biology and population density of the willow beetle (*Phratora vulgatissima* [L.]) on *Salix viminalis* in reclaimed cutaway peat. *Journal of Applied Ecology* **111**: 44-56.

—— (1991) Growth, development, food consumption and food utilisation of the willow beetle *Phratora vulgatissima* (L.). *Proceedings of the Royal Irish Academy* **91**B: 37-48.

Kelly, R. J. (1895) Plague of beetles in Galway in 1688. *Ir. Nat.* **4**: 190-191.

Kelly-Quinn, M. and Bracken, J. J. (1988) A comparative study of two tributaries of the River Dodder - The Owendoher and the Dundrum Stream. *Irish Fisheries Investigations Series A* **No. 30**: 3-16.

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2003) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 187-196.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kemp, S. W. (1902) *Laemostenus complanatus*, Dej., in Ireland: an addition to the British fauna. *Entomologist's mon. Mag.* **38**: 216.

—— (1902) Coleoptera caught in Ireland during May and June, 1902. *Entomologist's mon. Mag.* **38**: 177-178. (Col., Hem.)

—— (1903) Coleoptera near Dublin. *Entomologist's mon. Mag.* **39**: 40.

—— (1904) The beetles of the Limerick District. *Journal of the Limerick Field Club* **2**: 269-279.

Kennedy, T. F. (1994) The ecology of *Bembidion obtusum* (Ser.) (Coleoptera: Carabidae) in winter wheat fields in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **94**B: 33-40.

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

Kennedy, T. F., Evans, G. O. and Feeney, A. M. (1986) Studies on the biology of *Tachyporus hypnorum* F. (Col. Staphylinidae), associated with cereal fields in Ireland. *Irish Journal of Agricultural and Food Research* **25**: 81-95.

Kevan, D. K. (1943) *Laccornis oblongatus* Steph. and *Barypithes pellucidus* Boh., two beetles new to Scotland, and notes on *Otiorrhynchus porcatus* Herbst. *Entomologist's mon. Mag.* **79**: 207.

—— (1955) The identification of *Badister peltatus* (Pz), *dilatatus* Chaud., and *anomalus* (Perris) (Col., Carabidae, Licinini). *Entomologist's mon. Mag.* **91**: 207-210.

—— (1966) The British species of the Genus *Helophorus* Illiger, subgenus *Helophorus* s.str. (Col., Hydrophilidae). *Entomologist's mon. Mag.* **101** (1965): 254-258.

—— (1967) *Helochares obscurus* (O.F. Muller) a distinct species (Col., Hydrophilidae). *Entomologist's mon. Mag.* **102** (1966): 226-228.

Kinahan, J. R. (1855) (Coleoptera from granaries). *The Natural History Review (Proceedings of Societies)* **2**: 15.

King, P. E., Fordy, M. and Al-Khalifa, M. S. (1980) Observations on the intertidal *Micralymma marinum* (Strom) (Col., Staphylinidae). *Entomologist's mon. Mag.* **115** (1979): 133-135.

Kirk-Spriggs, A. H. (1996) Pollen beetles Coleoptera: Kateretidae and Nitidulidae: Meligethinae. *Handbooks for the Identification of British Insects* **5**(6a): 1-157.

Kiyak, S., Canbulat, S., Salur, A. and Darilmaz, M. (2006) Additional notes on aquatic Coleoptera fauna of Turkey with a new record (Helophoridae, Hydrophilidae). *Munis Entomology & Zoology* **1**: 273-278. (*Helophorus grandis*)

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235.

Koryszko, J. (2004) A further note and records of the continued spread of the lily beetle in Britain. *Bulletin of the Amateur Entomologists' Society* **63**: 111-112.

Kotze, J., Brandmayr, P., Casale, A., Dauffy-Richard, E., Dekoninck, W., Koivula, M., Lovei, G., Mossakowski, D., Noordijk, J., Paarmann, W., Pizzoloto, R., Saska, P., Schwerk, A., Serrano, J., Szyszko, J., Palomares, A., Turin, H., Venn, S., Vermeulen, R. and Brandmayr, T. Z. (2011) Forty years of carabid beetle research in Europe – from taxonomy, biology, ecology and population studies to bioindication, habitat assessment and conservation. Pp 55-148. *In carabid beetles as bioindicators: biogeographical, ecological and environmental studies. Proceedings of the XIV European Carabidologists Meeting, Westerbork, 14-18 September, 2009. ZooKeys* **100**: Special issue.

Kyne, M. J., Smal, C. M. and Fairley, J. S. (1989) The food of otters *Lutra lutra* in the Irish midlands and a comparison with that of mink *Mustela vision* in the same region. *Proceedings of the Royal Irish Academy* **89**B: 33-46. (*Dytiscus*)

Lane, S. (2012) Eucnemids in Warwickshire - a summary. *Beetle News* **4**: 9 (mention of Ireland)

Langham, C. (1897) Coleoptera taken at Tempo, Enniskillen. *Ir. Nat.* **6**: 57.

—— (1897) *Tachypus pallipes*, a beetle new to Ireland. *Ir. Nat.* **6**: 58.

Langley, R. and Fairley, J. S. (1982) Seasonal variations in infestations of parasites in a wood mouse *Apodemus sylvaticus* population in the west of Ireland. *Journal of Zoology, London* **198**: 249-261.

Lansbury, I. (1959) New county records of aquatic Coleoptera for Co. Clare, Eire. *Entomologist's mon. Mag.* **95**: 168.

—— (1965) Notes on the Hemiptera, Coleoptera, Diptera and other invertebrates of the Burren, Co. Clare and Inishmore, Aran Islands. *Proceedings of the Royal Irish Academy* **64**B: 89-116.

Last, H. (1974) *Philonthus mannerheimi* Fauvel (Col., Staphylinidae) and related species. *Entomologist's mon. Mag.* **109** (1973): 85-88.

Last, H. R. (1950) *Xantholinus meridionalis** (Nordmann) (Col., Staphylinidae) a species new to the British list. *Entomologist's mon. Mag.* **86**: 138-140.

Lawson, A. K. (1927) *Helophorus porculus* Bedel in Ireland. *Entomologist's mon. Mag.* **63**: 258-259.

Leather, S. R., Day, K. R. and Salisbury, A. N. (1999) The biology and ecology of the large pine weevil *Hylobius abietis* (Coleoptera: Curculionidae): a problem of dispersal? *Bulletin of Entomological Research* **89**: 3-16.

Leman, G. C. (1928) New Aberrations of, and miscellaneous notes on, coccinellids. *Entomologist's Rec. J. Var.* **40**: 34-37.

Levey, B. (2005) Some British records of *Chaetarthria simillima* Vorst & Cuppen, 2003 and *C. seminulum* (Herbst) (Hydrophilidae), with notes on their differentiation. *The Coleopterist* **14**: 97-99.

—— (2009) British Scraptiidae. *Handbooks for the Identification of British Insects* **5**(18): 32pp.

Lewcock, G. A. (1892) The British Coccinellidae. *Entomologist's Rec. J. Var.* **3**: 120-123, 149-150.

Lindroth, C. H. (1956) The Irish form of *Carabus granulatus* L. (Col., Carabidae). *Entomologist's mon. Mag.* **92**: 7-8.

—— (1974) Coleoptera Carabidae. *Handbooks for the Identification of British Insects* **4**(2): 1-148.

Linnie, M. J. (1990) A further record of *Anthrenus verbasci* (L.) (Coleoptera: Dermestidae) in Ireland. *Ir. Nat. J.* **23**: 219-220.

Lloyd, R. W. (1944) Occurrences of *Syagrius intrudens* Waterh. (Col. Curculionidae) in Britain confirmed. *Entomologist's mon. Mag.* **80**: 4.

—— (1948) *Carabus clathratus* L. (Col., Carabidae) in the Hebrides and Co. Mayo. *Entomologist's mon. Mag.* **84**: 33.

Lola-Luz, T., Downes, M. and Dunne, R. (2005) Control of black vine weevil larvae *Otiorhynchus sulcatus* (Fabricius) (Coleoptera: Curculionidae) in grow bags outdoors with nematodes. *Agricultural and Forest Entomology* **7**: 121-126.

Long, M. (2004) Report of Galway Naturalists' Field Club (Club Nádúraithe na Gaillimhe) 2002-2003. *Ir. Nat. J.* **27**: 366-368.

Lott, D. (1993) Two changes to the British list of Staphylinidae. *The Coleopterist* **2**: 20-22. (*Stenus glabellus* and *Aloconota planifrons*)

—— (1994) The British list: summary of additions and deletions published in 1993. *The Coleopterist* **3**: 6-8. (*Stenus exiguus*)

Lott, D. A. (2001) A statistical summary of the new checklist of Staphylinidae of the British Isles. *The Coleopterist* **10**: 67-73.

—— (2003) An annotated list of wetland ground beetles (Carabidae) and rove beetles (Staphylinidae) found in the British Isles including a literature review of their ecology. *English Nature Research Reports* **488**.

—— (2003) Recent records of *Lathrobium rufipenne* Gyllenhal (Staphylinidae) in Britain and Ireland. *The Coleopterist* **12**: 101-103.

—— (2008) The aedeagi of the British and Irish species of *Bledius* Leach (Staphylinidae) occurring on riverbanks. *The Coleopterist* **17**: 161-189. (*B. pallipes*, the presence of *B. annae* on the Irish list is probably based on records of *B. pallipes*), *B. fuscipes*, *B. longulus*, *B. gallicus*, *B. subterraneus*. The following are mentioned as Irish: *B. occidentalis*, *B. praetermissus*, *B. opacus*)

—— (2008) The British species of *Ochthephilus* Mulsant & Rey (Staphylinidae). *The Coleopterist* **17**: 17-22. (*O. aureus*, *O. omalinus*)

—— (2009) *Acrotona convergens* Strand (Staphylinidae) new to Ireland. *The Coleopterist* **18**: 131-138.

Lott, D. A. (2009) The Staphylinidae (rove beetles) of Britain and Ireland. Part 5: Scaphidiinae, Piestinae, Oxytelinae. *Handbooks for the Identification of British Insects* **12**(5): 1-100.

—— (2009) Irish water beetles see red. Review: Foster, G. N., Nelson, B. H. and O'Connor, Á. (2009) *Irish Red List No 1: water beetles*. *Latissimus* **26**: 24-25.

—— (2010) A new species of *Quedius* Stephens subgenus *Microsaurus* Dejean (Coleoptera: Staphylinidae) from Scotland and Ireland. *The Coleopterist* **19**: 135-141.

—— (2011) Some recent developments affecting the British list of Oxytelinae (Staphylinidae). *The Coleopterist* **20**: 23-30. (*Carpelimus rivularis*, *C. similis*)

Lott, D. A. and Anderson, R. (2011) The Staphylinidae (rove beetles) of Britain and Ireland. Parts 7 and 8: Oxyporinae, Steninae, Euaesthetinae, Pseudopsinae, Staphylininae. *Handbooks for the Identification of British Insects* **12**(7-8): 1-340.

Lott, D. A. and Bilton, D. T. (1991) Records of Coleoptera from Irish wetland sites in 1989. *Bulletin of the Irish Biogeographical Society* **14**: 60-72.

Lott, D. A. and Foster, G. N. (1990) Records of terrestrial Coleoptera from wetland sites in 1987, including *Stenus glabellus* Thomson (Staphylinidae) new to the British Isles. *Ir. Nat. J.* **23**: 280-282.

Lott, D. A., Hammond, P. M. and Webb, J. R. (2007) The British species of *Ochthephilum* Stephens (Staphylinidae). *The Coleopterist* **16**: 81-87. (*O. fracticorne*)

Lucey, J. (1991) Invertebrates as pollution indicators in Irish rivers. Pp 135-150. *In* Steer, M. W. (ed.) *Irish rivers: biology and management*. Royal Irish Academy, Dublin.

Luff, M. L. (1972) The larvae of the British Carabidae (Coleoptera) II. Nebriini. *Entomologist* **105**: 161-179.

—— (1977) Ground beetle collecting in the Dublin Area. *Bulletin of the Irish Biogeographical Society* **1**: 44-46.

—— (1998) *Provisional atlas of the ground beetles (Coleoptera, Carabidae) of Britain.* Biological Records Centre, Huntingdon. 194pp.

—— (2007) The Carabidae (ground beetles) of Britain and Ireland. *Handbooks for the Identification of British Insects* **4**(2): 252pp. (Second edition). The Field Studies Council for the Royal Entomological Society.

Lysaght, L. (2019) Biodiversity tales. Ladybirds. *Biodiversity Ireland* **Issue 19**: 16.

MacGowan, I. and Owen, J. A. (1993) *Pelophila borealis* Paykull (Col.: Carabidae) on the Scottish mainland. *Entomologist's Rec. J. Var.* **105**: 75-77.

MacKechnie-Jarvis, C. (1968) (Exhibit: *Thanatophilus dispar* Herbst (Silphidae) from Shanes Castle, Co. Antrim). *Proceedings and Transactions of the British Entomological and Natural History Society* **1**: 30.

—— (1971) (Exhibits: *Lebia crux-minor* L. from Co. Clare). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 98-99.

Madden, D., Harrison, S., Finn, J. A. and Ó hUallacháin, D. (2015) Riparian buffer zones in intensive grassland agri-systems are not necessarily a refuge for high conservation value species. *Biology and Environment: Proceedings of the Royal Irish Academy* **115**B: 191-210. (Col.)

Madden, D., McCormack, S. and Ó hUallacháin, D. (2010) Ground beetle (Carabidae) records from watercourse margins in southeast Ireland. *The Coleopterist* **19**: 100.

Maddison, D. R. and Anderson, R. (2016) Hidden species within the genus *Ocys* Stephens: the widespread species *O. harpaloides* (Audinet-Serville) and *O. tachysoides* (Antoine) (Coleoptera, Carabidae, Bembidiini). *Deutsche Entomologische Zeitschrift* **63**: 287-301.

Maican, S. and Serafim, R. (2001) Chrysomelidae (Coleoptera) from Maramures (Romania). *Travaux du Muséum National d'Histoire Naturelle <<Grigore Antipa>>* **43**: 199-233. (*Chrysomela populi*)

Majerus, M. E. N. (1996) Ladybird population explosions. *British Journal of Entomology and Natural History* **9**: 65-76.

Majka, C. G. and Klimaszewski, J. (2008) Introduced Staphylinidae (Coleoptera) in the Maritime Provinces of Canada. *Canadian Entomologist* **140**: 48-72. (*Tachyporus dispar*)

Majka, C. G. and Lesage, L. (2008) Introduced leaf beetles of the Maritime Provinces, 4: *Chrysolina staphylaea* (Linnaeus) (Coleoptera: Chrysomelidae). *Proceedings of the Entomological Society of Washington* **110**: 79-86.

Majka, C. G. and MacIvor, J. C. (2009) *Otiorhynchus porcatus* (Coleoptera: Curculionidae): a European root weevil newly discovered in the Canadian Maritime Provinces. *Journal of the Acadian Entomological Society* **5**: 27-31.

Majka, C. G. and Smetana, A. (2007) New records of introduced species of *Quedius* Stephens, 1829 (Coleoptera: Staphylinidae) from the Maritime Provinces of Canada. *Proceedings of the Entomological Society of Washington* **109**: 427-434. (*Q. fuliginosus*)

Maki, A. M. (2010) Aquatic macroinvertebrate biodiversity of an Irish constructed wetland system, two years after construction. *Bulletin of the Irish Biogeographical Society* **34**: 128-138.

Malumphy, C. and Redstone, S. (2015) First incursion of Tasmanian Eucalyptus Beetle *Paropsisterna selmani* in Britain, with a review of *Paropsisterna* species recorded in Britain (Coleoptera: Chrysomelidae). *British Journal of Entomology and Natural History* **28**: 205-210.

Mangan, A. and Walsh, P. F. (1980) Some observations on the spread of Dutch Elm disease in Ireland, 1978-1979. *Irish Journal of Agricultural Research* **19**: 133-140.

Mantell, A. and Anderson, R. (2019) A second Irish record of *Ptinus subpilosus* Sturm (Coleoptera: Ptinidae), from south-east Galway. *Ir. Nat. J.* **36**: 148-149.

—— (2019) *Bembidion quadrimaculatum* (Linnaeus) (Carabidae) on Lough Neagh, Northern Ireland. *The Coleopterist* **28**: 135-136.

—— (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.

Marnell, F. (2000) *Cyphon kongsbergensis* Munster (Coleoptera: Scirtidae), a beetle new to Ireland. *Ir. Nat. J.* **26** (1999): 274-276.

Marnell, F. and O'Connor, Á. (2005) *Hygrotus decoratus* (Gyllenhal) (Coleoptera: Dytiscidae), a water beetle new to Ireland. *Ir. Nat. J.* **28**: 126-127.

Marshall, G. A. K. (1922-23) On the Australian fern-weevils. *Bulletin of Entomological Research* **13**: 169-180.

Mart, A., İncekara, Ü. and Karaca, H. (2010) Faunistic study of the aquatic beetles (Coleoptera: Helophoridae) in the Bayburt, Giresun, Gümüşhane, Ordu, and Trabzon provinces of Turkey. *Turkish Journal of Zoology* **34**: 509-521.

Martin, R., Oxbrough, A., Gittings, T., Kelly, T. C. and O'Halloran, J. (2010) New records and rare invertebrate specimens recorded during a decade of forest biodiversity research in Ireland. *Antenna* **34**: 11-118.

Martin, R. D. (2013) *Anobium inexspectatum* Lohse (Coleoptera: Anobiidae) at Drummin Wood, Co. Galway and Uragh Wood, Co. Kerry, a new record for Ireland. *Ir. Nat. J.* **32**: 149-150.

Mason, P. B. (1897) *Neoclytus caprea*, Say, and *N. erythrocephalus*, F., two North American Longicorns bred in this country. *Entomologist's mon. Mag.* **33**: 91.

—— (1897) Supposed occurrence of American beetles in Ireland. *Ir. Nat.* **6**: 134.

Massee, A. M. (1960) *Lasiorhynchites ophthalmicus* (Steph.) (Col., Curculionidae): a new Irish record. *Entomologist's mon. Mag.* **96**: 4.

Matthews, A. (1864) On various species of Trichopterygidae new to Britain. *Entomologist's mon. Mag.* **1**: 173-178. (*T. fucicola* Fairmaire)

—— (1868) On some species of *Trichopterygia* new to the British list. *Entomologist's mon. Mag.* **5**: 9-13.

McAree, D. T. and MacKenzie, R. F. (1993) Guarding against potential threats to Irish forests. Pp 83-94. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Col., Hym., Lep.)

McCarthy, T. K. (1974) Some observations on the distribution of the Screech Beetle (*Hygrobia hermanni* Fab.) in Ireland. *Ir. Nat. J.* **18**: 124-125.

McClenaghan, I. (1984) *Mesites tardii* (Curtis) in North Ireland. *Ir. Nat. J.* **21**: 371.

—— (1985) 1984 Annual Exhibition. Coleoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **18**: 2-6. (C. Mackecknie-Jarvis, p. 5: *Carabus clathratus* L., *Lebia cruxminor* (L.))

—— (1985) *Mesites tardii* (Curtis) (Coleoptera: Curculionidae) in Co. Londonderry and Co. Down, and the relationship between elytral width and diameter of adult emergence holes. *Entomologist's Gazette* **36**: 205-207.

—— (1987) Some not-so-recent Irish records of *Euophryum confine* Broun (Col., Curculionidae). *Entomologist's mon. Mag.* **123**: 178.

—— (2008) *Aepus marinus* (Ström) (Carabidae) in north west Ireland, a new Donegal species. *The Coleopterist* **17**: 4.

McCormack, S. (2004) Recent records of two uncommon ground beetles (Coleoptera: Carabidae) from West Galway (H16): *Leistus montanus* Stephens and *Chlaenius vestitus*. *Ir. Nat. J.* **27**: 356.

—— (2004) *Cyphon pubescens* (Fabricius) (Coleoptera: Scirtidae), an addition to the Irish list of aquatic beetles. *Ir. Nat. J.* **27**: 435-436.

—— (2005) Aquatic beetles in Connemara National Park, Co Galway. *Ir. Nat. J.* **28**: 69-72.

—— (2007) *Trachyphloeus aristatus* (Gyllenhal) (Curculionidae) new to Ireland. *The Coleopterist* **16**: 80.

—— (2006) A recent Irish record of *Cyphon punctipennis* Sharp (Scirtidae) from Scragh Bog, Co. Westmeath. *The Coleopterist* **15**: 25.

McCormack, S. (2008) Beetles. *Biodiversity Ireland* **Issue 2**: 10-11. (*Ochthebius poweri*)

—— (2009) *Trichophya pilicornis* (Gyllenhal) (Staphylinidae) new to Ireland. *The Coleopterist* **18**: 158.

—— (2010) *Platambus maculatus* (L.) (Coleoptera: Dytiscidae) new to Ireland from Co. Wexford (H12). *Ir. Nat. J.* **30** (2009): 140.

—— (2010) *Medon apicalis* (Kraatz) (Staphylinidae) new to Ireland. *The Coleopterist* **19**: 102.

—— (2010) Beetles. The second beetle meeting. *Biodiversity Ireland* **Issue 6**: 14-15. (includes *Ochthebius nilssoni*)

—— (2011) *Bembidion iricolor* Bedel (Carabidae) new to Ireland. *The Coleopterist* **20**: 115.

—— (2020) *Gnypeta ripicola* (Kiesenwetter) (Staphylinidae) new to Ireland from Co. Tipperary. *The Coleopterist* **29**: 3.

McCormack, S., Fritch, R., Madden, D., Leyvastre, A. and Ó hUallacháin, D. (2009) *Bembidion quadrimaculatum* (Linnaeus) (Carabidae) new to Ireland. *The Coleopterist* **18**: 201.

McCormack, S. and Guinan, M. (2010) *Oedemera nobilis* (Scopoli) (Oedemeridae) in Co. Waterford. *The Coleopterist* **19**: 103.

McCormack, S., Nolan, M. and Regan, E. (2006) Coleoptera, Araneae, and aquatic Hemiptera recorded from three mountain areas in northwestern Ireland. *Bulletin of the Irish Biogeographical Society* **30**: 302-333.

McCormack, S., Nowak, D. and McCarthy, T. K. (2007) The aquatic Coleoptera of Inishbofin, Co Galway. *Ir. Nat. J.* **28** (2006): 315-320.

McCormack, S. and Regan, E. (2005) A second Irish record of *Adistemia watsoni* (Wollaston) (Coleoptera, Latridiidae). *Ir. Nat. J.* **28**: 47.

—— (2012) *Platystomos albinus* (Linnaeus) (Anthribidae) new to Ireland. *The Coleopterist* **21**: 105.

—— (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups*. The Collins Press, Cork.

McCormack, S., Regan, E., Nolan, M. and Anderson, R. (2009) Coleoptera from montane blanket bog in the Wicklow Mountains, Ireland. *Bulletin of the Irish Biogeographical Society* **33**: 81-98.

McDonnell, R. J., Fahy, O. L. and Gormally, M. J. (2002) Ground beetle (Coleoptera: Carabidae) and plant communities of Atlantic blanket bog in Connemara, Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 83-105.

McFadden, Y. M. T. and Fairley, J. S. (1984) Food of otters *Lutra lutra* (L.) in an Irish limestone river system with special reference to the crayfish *Austropotamobius pallipes* (Lereboullet). *Journal of Life Sciences of the Royal Dublin Society* **5**: 65-76.

McFerran, D., Cameron, A. and Anderson, R. (1995) The distribution and status of *Carabus clatratus* L. (Coleoptera: Carabidae) in the west Fermanagh and Erne lakeland environmentally sensitive area. *Ir. Nat. J.* **25**: 67-71.

McFerran, D. M., Anderson, R., Cameron, A. and Hegarty, C. A. (1996) The distribution and status of *Carabus nitens* L. (Coleoptera: Carabidae) in environmentally sensitive areas of Northern Ireland. *Ir. Nat. J.* **25**: 212-218.

McFerran, D. M., McAdam, J. H. and Montgomery, W. I. (1995) The impact of burning and grazing on heathland plants and invertebrates in County Antrim. *Biology and Environment: Proceedings of the Royal Irish Academy* **95**B: 1-17. (Carabidae)

McFerran, D. M., Montgomery, W. I. and McAdam, J. H. (1994) Effects of grazing intensity on heathland vegetation and ground beetle assemblages of the uplands of County Antrim, north-east Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **94**B: 41-52.

McNamara, L., Kapranas, A., Williams C. D., O'Tuama P., Kavanagh, K. and Griffin, C. T. (2018) Efficacy of entomopathogenic fungi against large pine weevil, *Hylobius abietis*, and their additive effects when combined with entomopathogenic nematodes. *Journal of Pest Science* **91**: 1407-1419.

McWeeney, E. J. and Praeger, R. L. (1896) Notes on the fauna and flora of Clonbrock. Prefatory note. *Ir. Nat.* **5**: 217-221.

Mendel, H. (1988) *Provisional atlas of the click beetles (Coleoptera: Elateroidea) of the British Isles.* Biological Records Centre, Huntingdon.

—— (1990) The status of *Ampedus pomonae* (Stephens), *A. praeustus* (F.) and *A. quercicola* (Du Buysson) (Coleoptera: Elateridae) in the British Isles. *Entomologist's Gazette* **41**: 23-30.

—— (1991) *Bembidion argenteolum* Ahrens (Coleoptera: Carabidae) in the British Isles. *British Journal of Entomology and Natural History* **4**: 139-141.

—— (1993) *Agriotes pallidulus* (Illiger) new to Ireland. *The Coleopterist* **2**: 18.

—— (1993) *Anisodactylus nemorivagus* (Duftschmid) (Carabidae), new to Ireland. *The Coleopterist* **2**: 44.

—— (1994) *Apteropeda splendida* Allard (Chrysomelidae) new to Ireland. *The Coleopterist* **2**: 70.

—— (1994) Further information on the first Irish record of *Agriotes pallidulus* (Illiger) (Elateridae). *The Coleopterist* **2**: 85.

—— (1994) *Rhynchaenus calceatus* (Germar) (Curculionidae) - new to Ireland. *The Coleopterist* **3**: 38-39.

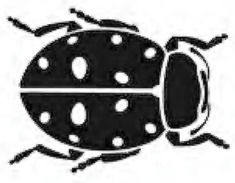
—— (2004) *Melanotus villosus* (Geoffroy in Fourcroy, 1785) and *Melanotus castanipes* (Paykull, 1800) (Elateridae) in Britain. *The Coleopterist* **13**: 121-124.

—— (2012) *Paraphotistus nigricornis* (Panzer) (Elateridae) in Ireland. *The Coleopterist* **21**: 90.

Menzies, I. S. and Cox, M. L. (1996) Notes on the natural history, distribution and identification of British reed beetles. *British Journal of Entomology and Natural History* **9**: 137-162, plates I-II.

Mertlik, J. and Platia, G. (2008) Catalogue of the family Cebrionidae, Elateridae, Lissomidae, Melasidae and Throscidae (Coleoptera) from Turkey. *Elateridarium* **2**: 1-40. (*Zorochros dermestoides*)

Millar, R. (1967) The avifauna of the East Twin, Belfast Harbour and some natural history notes. *Ir. Nat. J.* **15**: 258-266. (*Agabus uliginosus*)



Minchin, D., Speight, M. C. D. and O'Connor, J. P. (1999) Observations on *Metoecus paradoxus* (L.) (Coleoptera: Rhipiphoridae) in Ireland, including a key to females of Irish *Vespula* and *Dolichovespula* species (Hymenoptera: Vespidae). *Ir. Nat. J.* **26** (1998): 117-120.

Monahan, C. and Caffrey, J. M. (1996) *Macroplea appendiculata* (Coleoptera) in the Royal and Grand Canals: a rarity or an overlooked species in Ireland. *Bulletin of the Irish Biogeographical Society* **19**: 182-188.

Moore, B. P. (1957) The British Carabidae (Coleoptera), Part II: The county distribution of the species. *Entomologist's Gazette* **8**: 171-180.

Moore, P. and Anderson, R. (2006) *Carpophilus marginellus* Motschulsky (Nitidulidae) new to Ireland. *The Coleopterist* **15**: 98.

Moore, R. (1981) A list of beetles from Sherkin Island taken in Autumn 1980, including some new records for Cork and Munster. *Journal of Sherkin Island* **1**: 86-99.

Moran, J., Gormally, M. J. and Sheehy Skeffington, M. (2003) Records of *Panagaeus crux-major* (L.) and *Pterostichus aterrimus* (Herbst) recorded on turloughs, in Cos Clare and Mayo. *Ir. Nat. J.* **27**: 309-311.

Morley, C. (1898) *Andromenus gracilipes*, Duftschm., in Britain: An additional record. *Entomologist's mon. Mag.* **34**: 221-223.

—— (1914) The distribution of *Carabus clathratus*, L., with an attempt to confute the record of its occurrence in England. *Entomologist's mon. Mag.* **50**: 97-103.

Morris, M. G. (1966) Records of weevils (Coleoptera: Curculionoidea) from counties Galway, Offaly and Roscommon. *Ir. Nat. J.* **15**: 208-209.

—— (1966) *Ceuthorhynchus unguicularis* C.G. Thomson (Col., Curculionidae) new to the British Isles, from the Suffolk Breckland and the Burren, Co. Clare. *Entomologist's mon. Mag.* **101** (1965): 279-286.

—— (1967) Weevils (Coleoptera: Curculionoidea) and other insects collected in North West Clare, with special reference to the Burren region. *Proceedings of the Royal Irish Academy* **65**B: 349-371.

—— (1968) Recent records of weevils (Coleoptera; Curculionoidea) from Ireland. *Ir. Nat. J.* **16**: 42-47.

—— (1968) (Exhibit: *Otiorrhynchus uncinatus* Germ. (Curculionidae) from Co. Tipperary). *Proceedings and Transactions of the British Entomological and Natural History Society* **1**: 31.

—— (1969) *Otiorhynchus uncinatus* Germar (Col., Curculionidae) new to the British Isles from County Tipperary, Ireland. *Entomologist's mon. Mag.* **104** (1968): 257-260.

—— (1970) A second Irish specimen of *Otiorhynchus uncinatus* Germar (Col., Curculionidea). *Entomologist's mon. Mag.* **105** (1969): 184.

—— (1971) New vice-county records of Irish weevils (Coleoptera: Curculioneidea). *Ir. Nat. J.* **17**: 136-139.

—— (1971) Additional records of weevils from the Burren region (Coleoptera, Curculionoidea). *Ir. Nat. J.* **17**: 139-141.

—— (1974) Further records of weevils from the Burren, including two species new to Ireland (Coleoptera: Curculionidae). *Ir. Nat. J.* **18**: 49-51.

Morris, M. G. (1974) (Exhibits: *Gymnetron beccabungae* (L.), Co. Kerry). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 60.

—— (1975) (Exhibits: *Anthonomus rufus* Gyll.). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 87.

—— (1975) (*Rhinoncus perpendicularis* (Reich)). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 91.

—— (1976) (Exhibits: *Apion lacertense* Tottenham and *A. carduorum* Kirby). *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 115.

—— (1976) *Apion sicardi* Desbrochers, a species of weevil (Col., Apionidae) new to Britain. *Entomologist's mon. Mag.* **111** (1975): 165-171.

—— (1977) The British species of *Anthonomus* Germar (Col., Curculionidae). *Entomologist's mon. Mag.* **112** (1976): 19-40.

—— (1985) *Bagous brevis* Gyllenhal new to Ireland from the Burren, Co Clare, with a brief review of the Irish Bagoini (Coleoptera: Curculionidae). *Ir. Nat. J.* **21**: 400-403.

—— (1986) Records of *Anthonomus rufus* Gyllenhal (Coleoptera: Curculionidae) from Dorset, County Clare and County Galway. *Entomologist's Gazette* **37**: 220.

—— (1987) *Anthonomus rufus* Gyllenhal (Coleoptera: Curculionidae) in County Wicklow. *Ir. Nat. J.* **22**: 364-365.

—— (1987) The distribution and ecology of *Philopedon plagiatus* (Schaller) (Col.: Curculionidae), with particular reference to inland records. *Entomologist's Rec. J. Var.* **99**: 11-20.

—— (1987) New vicecounty records of weevils (Coleoptera: Curculionoidea) from Ireland. *Bulletin of the Irish Biogeographical Society* **10**: 124-136.

—— (1990) Orthocerous weevils Coleoptera: Curculionoidea (Nemonychidae, Anthribidae, Urodontidae, Attelabidae and Apionidae). *Handbooks for the Identification of British Insects* **5**(16): 1-108.

—— (1992) Five weevil species new to Ireland (Coleoptera: Curculionoidea). *Ir. Nat. J.* **24**: 65-69.

—— (1992) New records of weevils (Coleoptera, Curculionoidea) from Kildare, Wicklow, Dublin and Meath. *Ir. Nat. J.* **24**: 77-78.

—— (1992) Some notes on *Sirocalodes mixtus* (Muls. and Rey) (Col., Curculionidae) in the British Isles. *Entomologist's mon. Mag.* **128**: 180.

—— (1993) Some species of weevils recorded erroneously from Ireland, and others whose status requires confirmation (Coleoptera: Curculionoidea). *Ir. Nat. J.* **24**: 325-328.

—— (1993) 'British orthocerous weevils': corrections and new information (Coleoptera, Curculionoidea). *Entomologist's mon. Mag.* **129**: 23-29. (*Apion* (*Synapion*) *ebeninum*, *A.* (*Eutrichapion*) *modestum*)

—— (1993) A critical review of the weevils (Coleoptera, Curculionoidea) of Ireland and their distribution. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 69-84.

—— (1993) A review of the British species of Rhynchaeninae (Col., Curculionidae). *Entomologist's mon. Mag.* **129**: 177-197.

—— (1993) *Sitona puberulus* Reitter (Curculionidae) in Ireland. *The Coleopterist* **2**: 25-26.

Morris, M. G. (1993) A check list of the weevils of Ireland (Coleoptera: Curculionidae). *Entomologist's Gazette* **44**: 289-296.

—— (1995) A note on *Acalles misellus* Boheman (Curculionidae). *The Coleopterist* **4**: 55.

—— (1997) Some recent checklists and catalogues of European Coleoptera, with particular reference to Curculionidea. *The Coleopterist* **6**: 57-60.

—— (1997) New records of Irish weevils (Insecta, Coleoptera, Curculionoidea). *Bulletin of the Irish Biogeographical Society* **20**: 155-178.

—— (1997) Broad-nosed weevils Coleoptera: Curculionidae (Entiminae). *Handbooks for the Identification of British Insects* **5**(17a): 1-106.

—— (1998) Comparative aspects of the biology of three species of *Dorytomus* (Col., Curculionidae) associated with aspen, *Populus tremula* L. *Entomologist's mon. Mag.* **134**: 197-213.

—— (1999) The British species of *Glocianus* Reitter (Curculionidae: Ceutorhynchinae). *The Coleopterist* **8**: 49-56.

—— (2002) True weevils (part 1). Coleoptera: Curculionidae (Subfamilies Raymondionyminae to Smicronychinae). *Handbooks for the Identification of British Insects* **5**(17b): 1-149.

—— (2003) An annotated check list of British Curculionoidea (Col.). *Entomologist's mon. Mag.* **139**: 193-225.

—— (2007) A note on the alleged occurrence of *Ellescus scanicus* (Paykull) (Curculionidae) in the British Isles. *The Coleopterist* **16**: 23-24.

—— (2008) Some corrections to Colonnelli's World Catalogue of Ceutorhynchinae (Curculionidae) regarding the fauna of the British Isles. *The Coleopterist* **17**: 9-12.

—— (2009) The British species of *Limnobaris* (Curculionidae). *The Coleopterist* **18**: 35-47.

—— (2011) Taxonomic and nomenclatural changes in the British Trachyphloeini (Curculionidae, Entiminae). *The Coleopterist* **20**: 77-81.

—— (2012) True Weevils (Part III) Coleoptera: Curculionidae (Curculioninae, Baridinae, Orobitidinae). *Handbooks for the Identification of British Insects* **5**(17d): 136pp.

—— (2015) Male *Otiorhynchus rugifrons* (Gyllenhal) (Curculionidae) are widely distributed in the British Isles and common in south and south-west England. *The Coleopterist* **24**: 76-79.

Morris, M. G. and O'Connor, J. P. (1987) New vicecounty records of weevils (Coleoptera: Curculionoidea) from Ireland. *Bulletin of the Irish Biogeographical Society* **10**: 124-136.

—— (1992) New records of weevils (Coleoptera: Curculionidae) from various Irish vice-counties. *Bulletin of the Irish Biogeographical Society* **15**: 110-114.

Morris, M. G. and Owen, J. A. (1997) Notes on *Rhynchaenus calceatus* (Germar) (Curculionidae) in Ireland. *The Coleopterist* **6**: 72-73.

—— (1999) The history, identification, distribution and ecology of *Polydrusus pilosus* Gredler in the British Isles, with comparative notes on *P. cervinus* (Linnaeus) (Curculionidae). *The Coleopterist* **8**: 101-111.

—— (2003) *Ceutorhynchus cakilis* (Hansen) in the British Isles (Curculionidae). *The Coleopterist* **12**: 7-13.

Mullen, K., Fahy, O. and Gormally, M. (2003) Ground flora and associated arthropod communities of forest road edges in Connemara, Ireland. *Biodiversity and Conservation* **12**: 87-101.

Mullen, K., O'Halloran, J., Breen, J., Giller, P., Pithon, J. and Kelly, T. (2008) Distribution and composition of carabid beetle (Coleoptera, Carabidae) communities across the plantation forest cycle-implications for management. *Forest Ecology and Management* **256**: 624-632.

Murchie, A. K., Moore, J. P., Moore, G. A. and Roy, H. E. (2008) The Harlequin Ladybird (*Harmonia axyridis* (Pallas)) (Coleoptera: Coccinellidae), found in Ireland. *Ir. Nat. J.* **29**: 25-26.

Nash, R. (1989) The Musk Beetle *Aromia moschata* (L.) (Coleoptera: Cerambycidae) in Co Down. *Ir. Nat. J.* **23**: 153.

Nash, R. and Anderson, R. (2007) *Korynetes caeruleus* (Degeer) (Coleoptera: Cleridae) and *Gibbium psylloides* (Czempinski) (Coleoptera: Ptinidae), beetles new to Ireland. *Ir. Nat. J.* **28**: 418-419.

Nash, R., Anderson, R. and O'Connor, J. P. (1997) Recent additions to the list of Irish Coleoptera. *Ir. Nat. J.* **25**: 319-325.

Nash, R. and O'Connor, J. P. (2011) Notes on the Irish entomologist Alexander Henry Haliday (1806-1870). *Bulletin of the Irish Biogeographical Society* **35**: 64-112.

National Biodiversity Data Centre (2020) Longhorn Beetles of Ireland. <https://maps.biodiversityireland.ie/ Dataset/300>

—— (2020) Ladybirds of Ireland. <https://maps.biodiversityireland.ie/Dataset/255>

—— (2020) Leafminers of Ireland. <https://maps.biodiversityireland.ie/Dataset/254>

Neale, F. (1897) (*Panageus crux-major* in Co. Clare). *Ir. Nat.* **6**: 53.

—— (1899) (*Silpha quadripunctata* in Co. Clare). *Ir. Nat.* **8**: 48-49.

Neale, M., Nelson, B. and Rippey, B. (2003) Notable records of aquatic insects (Plecoptera, Hemiptera and Coleoptera) from Northern Ireland. *Ir. Nat. J.* **27**: 295-300.

Neenan, M. and Kennedy, T. F. (1989) *Cryptorhynchus lapathi* (L.), a potential pest of willow plantations. *Ir. Nat. J.* **23**: 32.

Nelson, B. (1997) A record of *Gyrinus urinator* Illiger (Coleoptera: Gyrinidae) from Meath. *Ir. Nat. J.* **25**: 345.

—— (2001) Aquatic insect communities of Northern Irish freshwaters. *Verh. Internat. Verein. Limnol.* **27**: 891-894.

—— (2002) Records of two uncommon ground beetles (Coleoptera: Carabidae) at Portmore Lough, Co Antrim. *Ir. Nat. J.* **26** (2001): 430-431.

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

—— (2007) *Bagous lutosus* and *Stenopelmus rufinasus* new to Ireland and recent records of two other rare Irish weevils (Curculionidae and Erirhinidae). *The Coleopterist* **16**: 141-145.

—— (2016) *Curculio nucum* Linnaeus (Curculionidae) new to Ireland. *The Coleopterist* **25**: 4-5.

Nelson, B. (2018) A recent Irish record of *Hyperaspis pseudopustulata* Mulsant (Coccinellidae) with a review of historic records. *The Coleopterist* **27**: 125-126.

Nelson, B. and Anderson, R. (1999) Records of uncommon wetland beetles from N. Ireland, with particular reference to biodiversity and RDB list species. *The Coleopterist* **8**: 11-16.

Nelson, B. and Brock, P. D. (2018) Asparagus beetle *Crioceris asparagi* (Linnaeus) (Chrysomelidae) new to Ireland. *The Coleopterist* **27**: 45-46.

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland. (aquatic beetles)

Nelson, B. and Foster, G. (2005) *Hydrovatus clypealis* (Coleoptera: Dytiscidae) new to Ireland and corrections to the Irish Coleoptera list. *Ir. Nat. J.* **28**: 35-36.

Nelson, B., Foster, G., Weyl, R. and Anderson, R. (1997) The distribution of aquatic Coleoptera in Northern Ireland. Part 1: Families Haliplidae, Hygrobiidae, Noteridae, Dytiscidae and Gyrinidae. *Bulletin of the Irish Biogeographical Society* **20**: 179-296.

—— (1998) The distribution of aquatic Coleoptera in Northern Ireland. Part 2: Families Hydraenidae, Helophoridae, Hydrochidae, Hydrophilidae, Elmidae and Dryopidae. *Bulletin of the Irish Biogeographical Society* **22**: 128-193.

Nelson, B., O Connor, Á., Foster, G. N., Doddy, P. and Roden, C. (2019) A review of *Ochthebius nilssoni* Hebauer (Coleoptera: Hydraenidae) in western Ireland including a first report from Lough Carra. *Ir. Nat. J.* **36**: 117-122.

Nelson, B., Walsh, J. and Foster, G. (2007) Finding jewels amongst the reeds: a review of the Irish donaciine beetles (Coleoptera: Chrysomelidae). *Bulletin of the Irish Biogeographical Society* **31**: 117-193.

Nelson, B. H. and Anderson, R. (1998) Land and freshwater invertebrates. Pp 85-88. *In* Kaznowska, S. (ed.) *Coastal directory of the British Isles.* Region 4/17. JNCC, Peterborough.

Newman, E. (1833) Entomological Notes. *The Entomological Magazine* **1**: 283-288, 505-514.

—— (1875) *Doryphora decem-lineata* in Ireland. *Entomologist* **8**: 67.

Ní Bhriain, B., Sheehy Skeffington, M. and Gormally, M. (2002) Conservation implications of land use practices on the plant and carabid beetle communities of two turloughs in Co. Galway, Ireland. *Biological Conservation* **105**: 81-92.

Nicholson, G. W. (1910) Some Coleoptera from Co. Meath. *Ir. Nat.* **19**: 93-94.

—— (1911) *Quedius obliteratus* from Co. Cavan. *Ir. Nat.* **20**: 55.

—— (1911) A second list of Coleoptera from the Co. Meath. *Ir. Nat.* **20**: 139-140.

—— (1912) Records of local Coleoptera. I. Geodephaga. *Entomologist's Rec. J. Var.* **24**: 168-169.

—— (1913) Records of Local Coleoptera. II Hydrodephaga. *Entomologist's Rec. J. Var.* **25**: 106.

—— (1913) Some additional records of Irish beetles, chiefly from Co. Meath. *Ir. Nat.* **22**: 49-50.

Nicholson, G. W. (1913) An Irish *Pterostichus aterrimus* (exhibited). *Proceedings of the Entomological Society of London* **1913**: 79.

—— (1914) Coleoptera from Cavan and Meath. *Ir. Nat.***23**: 68-72.

—— (1915) Some additional Coleoptera from Cavan. *Ir. Nat.* **24**: 5-8.

—— (1916) *Otiorrhynchus porcatus* Herbst, in Ireland. *Entomologist's mon. Mag.* **52**: 202-203.

—— (1917) Additional Coleoptera from Meath and Cavan. *Ir. Nat.* **26**: 28-31.

—— (1919) Note on the occurrence of *Lamprinus saginatus* Gr. with ants. *Entomologist's mon. Mag.* **55**: 136-137.

—— (1920) *Longitarsus castaneus*, Duft. - a correction. *Ir. Nat.* **29**: 34.

—— (1920) Coleoptera from County Cavan. *Ir. Nat.* **29**: 34.

Nield, C. E. (1976) Aspects of the biology of *Staphylinus olens* (Müller), Britain's largest staphylinid beetle. *Ecological Entomology* **1**: 117-126.

Nilsson, A. N. (2012) Catalogue of Palearctic Dytiscidae (Coleoptera). Internet version 2012-01-01
<http://www2.emg.umu.se/projects/biginst/andersn/Cat_main.htm>

Nolan, M. (2005) A new county record of *Lebia cruxminor* (Linnaeus) (Carabidae) from Ireland. *The Coleopterist* **14**: 82-83.

—— (2015) *Carabus nitens* L. (Coleoptera: Carabidae) in the south of Ireland: recent and historical records. *Bulletin of the Irish Biogeographical Society* **39**: 243-251.

—— (2015) Alfred Furlong: a nineteenth century Irish entomologist. *Bulletin of the Irish Biogeographical Society* **39**: 252-274. (Col.)

—— (2017) First Irish records of the Cream-streaked Ladybird *Harmonia quadripunctata* (Pontoppidan, 1763) (Coleoptera: Coccinellidae). *Bulletin of the Irish Biogeographical Society* **41**: 134-139.

—— (2018) Evidence that the Cream-streaked Ladybird *Harmonia quadripunctata* (Pontoppidan, 1763) (Coleoptera: Coccinellidae) is breeding in Ireland. *Bulletin of the Irish Biogeographical Society* **42**: 188-190.

Nowak, D. and McCarthy, T. K. (2011) Records of imported longhorn beetles *Ergates faber* (L., 1767) and *Saperda scalaris* (L., 1758) (Coleoptera: Cerambycidae) in Co. Galway. *Ir. Nat. J.* **31** (2010): 139-140.

O'Brien, C., Selby, K., Ruiz, Z., Brown, A., Dinnin, M., Caseldine, C., Langdon, P. and Stuijts, I. (2005) A sediment-based multiproxy palaeoecological approach to the environmental archaeology of lake dwellings (crannogs), central Ireland. *The Holocene* **15**: 707-719.

O'Brien, F. A. (1893) (Coleoptera from Skerries). *Ir. Nat.* **2**: 197.

O'Brien, M., Spillane, C., Meade, C. and Mullins, E. (2008) An insight into the impact of arable farming on Irish biodiversity: a scarcity of studies hinders a rigorous assessment. *Biology and Environment: Proceedings of the Royal Irish Academy* **108**B: 97-108.

O'Callaghan, D. P. (1982) Occurrence of the small elm bark beetle, *Scolytus multistriatus*, in Ireland. *Ir. Nat. J.* **20**: 384-385.

O'Callaghan, E., Foster, G. N., Bilton, D. T. and Reynolds, J. D. (2009) *Ochthebius nilssoni* Hebauer new for Ireland (Coleoptera: Hydraenidae), including a key to Irish *Ochthebius* and *Enicocerus*. *Ir. Nat. J.* **30**: 19-23.

O'Ceallachain, D. P. and Ryan, M. F. (1977) Production and perception of pheromones by *Tribolium confusum*. *Journal of Insect Physiology* **23**: 1303-1309.

O'Connell, P., Cogan, R. and Dunne, J. (2006) The diet of the barn owl *Tyto alba* at two sites in County Galway. *Irish Birds* **8**: 91-96. (Carabidae and *Geotrupes*)

O'Connor, A. (1998) Painting conservation. Pp 7-30. *In* O'Connor, A. and McGuinne, N. (eds) *The deeper picture. Conservation at the National Gallery of Ireland.* National Gallery of Ireland, Dublin. (Pp 12-13 "Heritage eaters: the Caravaggio infestation" - *Stegobium paniceum*)

O'Connor, J. P. (1978) Occurrence of *Euophryum rufum* Broun (Col., Curculionidae) in Ireland. *Entomologist's mon. Mag.* **113** (1977): 56.

—— (1978) An Irish record of the hide beetle *Dermestes carnivorus* F. (Col., Dermestidae). *Entomologist's mon. Mag.* **113** (1977): 150.

—— (1979) *Blaps lethifera* Marsham (Coleoptera: Tenebrionidae), a beetle new to Ireland from Viking Dublin. *Entomologist's Gazette* **30**: 295-297.

—— (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1987) *Alphitobius diaperinus* (Panzer) (Col., Tenebrionidae) damaging polystyrene insulation in an Irish piggery. *Entomologist's mon. Mag.* **123**: 50.

—— (1990) A recent Irish record of *Elenchus tenuicornis* (Kirby) (Strepsipt., Elenchidae). *Entomologist's mon. Mag.* **126**: 66.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (1998) *Dermestes peruvianus* Laporte de Castelnau (Col., Dermestidae), new to Ireland. *Entomologist's mon. Mag.* **134**: 93.

—— (1999) *Cyphon phragmiteticola* Nyholm (Scirtidae) new to Ireland. *The Coleopterist* **8**: 116.

—— (2000) A sixth Irish record of *Metoecus paradoxus* (L.) (Coleoptera: Rhipiphoridae). *Ir. Nat. J.* **26** (1999): 279.

—— (2003) *Reesa vespulae* (Milliron) (Col., Dermestidae) new to Ireland. *Entomologist's mon. Mag.* **139**: 12.

—— (2005) *Glischrochilus hortensis* (Geoffroy) (Nitidulidae) attacking raspberries and tomatoes in Ireland. *The Coleopterist* **14**: 6.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P., Bowdrey, J. P., Redfern, M. and Higginbottom, T. (2008) Records of Irish galls (Fungi; Insecta: Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera; Acarina: Eriophyidae) including eight species new to Ireland and one deletion from the Irish list. *Bulletin of the Irish Biogeographical Society* **32**: 40-61.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P. and Nash, R. (1979) Record of six insect species (Coleoptera: Orthoptera) recently imported into Ireland. *Ir. Nat. J.* **19**: 433-434.

—— (1981) Notes on five species of insect (Hemiptera: Coleoptera) imported into Ireland. *Ir. Nat. J.* **20**: 299-300.

—— (1982) Further records of insects (Dictyoptera, Lepidoptera, Coleoptera, Diptera) imported into Ireland. *Ir. Nat. J.* **20**: 393-395.

—— (1982) Notes on the entomological collection of A. H. Haliday (1806-1870) in the National Museum of Ireland, with a recommendation for type designations. *Proceedings of the Royal Irish Academy* **82**B: 169-175, plates I-IV.

—— (1983) Insects imported into Ireland 5. Records of Orthoptera, Hemiptera, Hymenoptera and Coleoptera. *Ir. Nat. J.* **21**: 114-117.

—— (1984) Insects imported into Ireland 6. Records of Orthoptera, Dermaptera, Lepidoptera and Coleoptera. *Ir. Nat. J.* **21**: 351-353.

O'Connor, J. P., Nash, R. and Anderson, R. (1983) Insects imported into Ireland 4. Records of Dictyoptera, Hemiptera, and Coleoptera (including *Pycnomerus fuliginosus* Erichson). *Ir. Nat. J.* **21**: 81-83.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp. (Strep.)

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25.

O'Connor, J. P. and O'Connor, M. A. (1984) Two recent Irish records of *Pyrochroa serraticornis* (Scopoli) (Col., Pyrochroidae). *Entomologist's mon. Mag.* **120**: 54.

—— (1987) A second Irish record of *Melasis buprestoides* (L.) (Col., Eucnemidae). *Entomologist's mon. Mag.* **123**: 228.

O'Connor, J. P. and O'Neill, L. (1985) A record of *Dytiscus circumflexus* Fabricius (Coleoptera) from Co Wexford. *Ir. Nat. J.* **21**: 464.

O'Connor, J. P. and Rigney, S. (1991) A second Wexford record of *Pyrochroa serraticornis* (Scopoli) (Coleoptera). *Ir. Nat. J.* **23**: 503.

O'Connor, J. P. and Ronayne, C. (2007) *Stylops melittae* Kirby (Strepsipt., Stylopidae) new to Ireland. *Entomologist's mon. Mag.* **143**: 199.

O'Connor, J. P. and Walsh, J. (2002) Notes on *Oulema melanopus* (Linnaeus) (Chrysomelidae) in Ireland. *The Coleopterist* **11**: 18-19.

O'Connor, J. P., Winter, T. G. and Good, J. A. (1991) A review of the Irish Scolytidae (Insecta: Coleoptera). *Ir. Nat. J.* **23**: 403-409.

O'Connor, M. and O'Connor, J. P. (2013) A second Irish record of *Oedemera nobilis* (Scopoli) (Oedemeridae). *The Coleopterist* **22**: 69.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21.

O'Halloran, J., Irwin, S., Kelly, D. L., Kelly, T. C., Mitchell, F. J. G., Coote, L., Oxbrough, A., Wilson, M. W., Martin, R. D., Moore, K., Sweeney, O., Dietzsch, A. C., Walsh, A., Keady, S., French, V., Fox, H., Kopke, K., Butler, F. and Neville, P. (2011) *Management of biodiversity in a range of Irish forest types.* Report prepared for the Department of Agriculture, Fisheries and Food, Dublin. 391pp.

O'Hanlon, A. (2020) A new addition to the Irish fauna from old specimens: the first Irish records of a globally-rare species of burying beetle *Nicrophorus interruptus*. *Ir. Nat. J.* **37**: 59-61.

O'Hanlon, A., Anderson, R., Nolan, M. and O'Connor, J. P. (2020) Irish carrion beetles (Coleoptera: Silphidae): A review of the species and their known distribution. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 219-235.

O'Hanlon, A., Williams, C. D. and Gormally, M. J. (2019) Terrestrial slugs (Mollusca: Gastropoda) share common anti-predator defence mechanisms but their expression differs among species. *Journal of Zoology, London* **307**: 203-214. (Col.)

O'Hea, N., Kirwan, L. and Finn, J. A. (2010) Experimental mixtures of dung fauna affect dung decomposition through complex effects of species interactions. *Oikos* **119**: 1081-1088.

O'Hea, N. M., Giller, P. S. and Finn, J. A. (2008) The role of dung beetles in grazed landscapes. *TResearch* **3**: 40-41.

O'Hea, N. M., Kirwan, L., Giller, P. S. and Finn, J. A. (2010) Lethal and sublethal effects of ivermectin on north temperate dung beetles, *Aphodius ater* and *Aphodius rufipes* (Coleoptera: Scarabaeidae). *Insect Conservation and Diversity* **3**: 24-33.

O'Mahony, E. (1924) Dublin insects. *Ir. Nat.* **33**: 8-9. (Col., Hym.)

—— (1924) Records for *Choleva nigrata*, *Cassida nobilis*, and other beetles in Co. Dublin. *Ir. Nat.* **33**: 47.

—— (1924) *Athous difformis* Lac. and other beetles in County Dublin. *Ir. Nat.* **33**: 121-122.

—— (1926) *Antherophagus silaceus* Herbst and *Aglenus brunneus* Gyll. in Ireland. *Entomologist's mon. Mag.* **62**: 94.

—— (1926) *Otiorrhynchus porcatus* Herbst: a new Irish locality. *Entomologist's mon. Mag.* **62**: 267.

—— (1927) A new variety of *Rhizobius litura* F. from Ireland. *Entomologist's mon. Mag.* **63**: 208-209.

—— (1927) Three beetles new to the Irish fauna. *Entomologist's mon. Mag.* **63**: 234. (*Liodes orbicularis* Herbst, *Lesteva fontinalis* Kies, *Atomaria fimetarii* Herbst)

—— (1927) A new locality, in Co. Dublin, for *Brychius elevatus*. *Ir. Nat. J.* **1**: 215.

—— (1927) A new Irish beetle *Ocyusa picina* Aubé. *Entomologist's mon. Mag.* **63**: 11.

—— (1928) *Dermestes* attacking tobacco. *Entomologist's mon. Mag.* **64**: 89.

—— (1928) *Prionocyphon serricornis* Mull., an Irish beetle. *Entomologist's mon. Mag.* **64**: 101.

—— (1928) Coleoptera in north-east Co. Dublin. *Entomologist's mon. Mag.* **64**: 150-152.

—— (1929) *Stenus opacus*, *Halicta lythri* and other Irish Coleoptera. *Entomologist's mon. Mag.* **65**: 110-111.

—— (1929) Report on recent additions to the Irish fauna and flora. Coleoptera. *Proceedings of the Royal Irish Academy* **39**B: 22-36.

O'Mahony, E. (1930) (*Otiorrhynchus porcatus* at Clontarf). *Ir. Nat. J.* **3**: 20.
—— (1931) Two new Irish beetles, *Sphaeriesites gabreili* Gerh. and *Pityogenes chalcographtus* L. *Entomologist's mon. Mag.* **67**: 18-19.
—— (1931) A note on some Irish Coleoptera. *Entomologist's mon. Mag.* **67**: 182.
—— (1932) Notes on Irish Coleoptera. *Entomologist's mon. Mag.* **68**: 39-40.
—— (1932) *Bryocharis inclinans* Gr. in Ireland. *Entomologist's mon. Mag.* **68**: 85.
—— (1932) Irish water-beetles: some new county records. *Entomologist's mon. Mag.* **68**: 137.
—— (1933) The Tobacco Beetle, *Lasioderma serricorne*, Fab., in Ireland. *Entomologist's mon. Mag.* **69**: 90.
—— (1933) County records for Irish Coleoptera. *Entomologist's mon. Mag.* **69**: 139-140.
—— (1934) New Irish Coleoptera with description of a new aberration. *Entomologist's mon. Mag.* **70**: 199.
—— (1934) Irish Coleoptera: some new county records. *Entomologist's mon. Mag.* **70**: 208-209.
—— (1934) Some Coleoptera introduced into Ireland. *Entomologist's mon. Mag.* **70**: 209.
—— (1935) A new Irish beetle, *Malthodes guttifer* Kies. *Entomologist's mon. Mag.* **71**: 111.
—— (1935) *Calosoma schayeri* Ey. introduced into Ireland. *Entomologist's mon. Mag.* **71**: 111-112.
—— (1935) New, rare and local Irish Coleoptera. *Entomologist's mon. Mag.* **71**: 236.
—— (1935) *Gyrnobius kiesenwetteri* Edwards in Ireland. *Ir. Nat. J.* **5**: 286.
—— (1936) *Cidnorrhinus quadrimaculatus* L. ab. *rimulosus* Germ. and other Irish Coleoptera. *Entomologist's mon. Mag.* **72**: 178-180.
—— (1936) Some new forms of Irish Coleoptera. *Ir. Nat. J.* **6**: 30.
—— (1936) Irish Coleoptera: a correction. *Entomologist's mon. Mag.* **72**: 200.
—— (1937) *Tenebrio molitor* Linne in Irish Tobacco. *Ir. Nat. J.* **6**: 303-304.
—— (1937) *Lyctus planicollis* Lec. imported into Dublin. *Entomologist's mon. Mag.* **73**: 258-259.
—— (1937) A note on some Irish Chrysomelidae. *Entomologist's mon. Mag.* **73**: 16.
—— (1938) A note on Irish Coleoptera. *Entomologist's mon. Mag.* **74**: 190-191.
—— (1938) *Aepus robini* Lab. at Howth, Co. Dublin. *Ir. Nat. J.* **7**: 87.
—— (1938) *Pelophila borealis* Payk. and *Stenolophus mixtus* Herbst. in County Dublin. *Ir. Nat. J.* **7**: 87.
—— (1939) Birds' nest beetles. *Ir. Nat. J.* **7**: 213-214.
—— (1940) *Trechus subnotatus* Dej. (Col., Carabidae) in Co. Dublin. *Entomologist's mon. Mag.* **76**: 136.
—— (1940) Some Irish Coleoptera records. *Entomologist's mon. Mag.* **76**: 180.
—— (1940) *Barypithes curvimanus* Duv. (Col., Curculionidae) in N. E. Co. Dublin. *Entomologist's mon. Mag.* **76**: 204.
—— (1941) On the occurrence of *Bledius unicornis* Gmel. (Col., Staphylinidae) in Ireland. *Entomologist's mon. Mag.* **77**: 250.
—— (1941) *Hallomenus binotatus* Quen. (Col., Melandryidae) in Ireland. *Entomologist's mon. Mag.* **77**: 171.

O'Mahony, E. (1943) A note on some beetles introduced into Ireland. *Entomologist's mon. Mag.* **79**: 279.

—— (1943) *Monotoma bicolor* Villa (Col., Monotomidae), etc., in Ireland. *Entomologist's mon. Mag.* **79**: 42.

—— (1943) Some Co. Kildare Coleoptera. *Entomologist's mon. Mag.* **79**: 61.

—— (1944) *Macroplea appendiculata* Panz. (Col., Chrysomelidae) in Ireland. *Entomologist's mon. Mag.* **80**: 211.

—— (1945) A scarce Irish beetle, *Leptinus testaceus* Mull. (Col., Leptinidae). *Entomologist's mon. Mag.* **81**: 6.

—— (1945) *Phyllodrepa puberula* Bernh. (Col., Staphylinidae) a new Irish locality. *Entomologist's mon. Mag.* **81**: 47.

—— (1947) *Leptinus testaceus* Mull (Col., Leptinidae), additional Irish records. *Entomologist's mon. Mag.* **83**: 190.

—— (1948) *Anommatus 12-striatus* Mull. (Col., Colydiidae) and *Adalia bipunctata* L. (Col. Coccinellidae) in Dublin. *Entomologist's mon. Mag.* **84**: 284.

—— (1949) *Lyctus brunneus* Steph. (Col. Lyctidae) and *Heterobostrichus aequalis* Waterh. (Col., Bostrichidae) in Ireland. *Entomologist's mon. Mag.* **85**: 48.

—— (1949) Two birds' nest beetles (Col., Scarabaeidae and Histeridae). *Entomologist's mon. Mag.* **85**: 310.

—— (1950) Two species of *Catharsius* (Col., Scarabaeidae) introduced into Ireland. *Entomologist's mon. Mag.* **86**: 64.

—— (1950) Irish records of introduced Coleoptera. *Entomologist's mon. Mag.* **86**: 72-73.

—— (1950) *Anthicus scoticus* Rye (Col., Anthicidae), a Co. Wexford record. *Entomologist's mon. Mag.* **86**: 360.

—— (1951) An Irish record for *Anthicus angustatus* Curt. (Col., Anthicidae). *Entomologist's mon. Mag.* **87**: 32.

—— (1951) *Xantholinus semirufus* Reitt. (Col., Staphylinidae), further Irish records. *Entomologist's mon. Mag.* **87**: 32.

O'Meara, M. (2008) *The beetles of Waterford City and County*. Waterford Wildlife, Waterford.

—— (2009) The beetles of Waterford City and County. *Fauna of Waterford Series* **No. 9**. Waterford Wildlife, Waterford. <http://www.waterfordwildlife. com/>

O'Sullivan, A. D., McCabe, O. M., Murray, D. A. and Otte, M. L. (1999) Wetlands for rehabilitation of metal mine wastes. *Biology and Environment: Proceedings of the Royal Irish Academy* **99**B: 11-17.

O'Sullivan, C. M. and Gormally, M. J. (2002) A comparison of ground beetle (Carabidae: Coleoptera) communities in an organic and conventional potato crop. *Biological Agriculture and Horticulture* **20**: 99-110.

O'Sullivan, H. M., Smal, C. M. and Fairley, J. S. (1984) A study of parasite infestations in populations of small rodents (*Apodemus sylvaticus* and *Clethrionomys glareolus*) on Ross Island, Killarney. *Journal of Life Sciences of the Royal Dublin Society* **5**: 29-42.

O'Sullivan, J. (2013) A record of *Lilioceris lilii* (Scopoli) (Chrysomelidae: Criocerinae) from Co. Cork. *Ir. Nat. J.* **32**: 148.

O'Sullivan, J. (2015) A breeding site for the Harlequin Ladybird (*Harmonia axyridis* (Pallas)) (Coleoptera: Coccinellidae) in Co. Cork. *Ir. Nat. J.* **34**: 72-73.

O'Sullivan, M. (1990) Some Irish longhorns (Col.: Cerambycidae). *Bulletin of the Amateur Entomologists' Society* **49**: 45.

—— (2003) A record of *Strangalia aurelenta* Fabricius (Col.: Cerambycidae) from Co. Kerry. *Entomologist's Rec. J. Var.* **115**: 194-195.

O'Sullivan, M. and Lavery, J. W. (2008) Eight days in the Burren (2007). *Entomologist's Rec. J. Var.* **120**: 107-117.

O'Sullivan, M. J. (1990) Burren Lepidoptera. *Bulletin of the Amateur Entomologists' Society* **49**: 37-45.

Olberg, S. (2008) *Acupalpus dubius* Schilsky, 1888 (Carabidae, Coleoptera) in Norway. *Norwegian Journal of Entomology* **55**: 86.

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Orledge, G. M. and Booth, R. G. (2006) An annotated checklist of British and Irish Ciidae with revisionary notes. *The Coleopterist* **15**: 1-16.

Orledge, G. M., Smith, P. A. and Reynolds, S. E. (2010) The non-pest Australasian fungivore *Cis bilamellatus* Wood (Coleoptera: Ciidae) in northern Europe: spread dynamics, invasion success and ecological impact. *Biological Invasions* **12**: 515-530.

Ostojá-Starzewski, J. C. (2002) *Orthochaetes insignis* (Aubé) (Curculionidae: Erirhininae) mining the leaves of cultivated Cyclamen spp. in the British Isles. *The Coleopterist* **11**: 83-88.

Owen, J. (1993) An annotated list of recent additions and deletions affecting the recorded beetle fauna of the British Isles. *The Coleopterist* **2**: 1-18. (corrections on p. 67 of *The Coleopterist* **2**)

—— (1994) *Badister anomalous* Perris, *Carpelimus impressus* (Lacordaire) and *Stenus kiesenwetteri* Rosenhauer, Coleoptera new to Ireland. *Ir. Nat. J.* **24**: 467-468.

—— (1995) A note on *Otiorhyncus uncinatus* Germar (Coleoptera) in Co Tipperary. *Ir. Nat. J.* **25**: 34.

—— (1997) *Heterocerus fenestratus* (Thunberg) (Coleoptera), new to Ireland. *Ir. Nat. J.* **25**: 453-454.

Owen, J. A. (1995) Three species of Coleoptera new to Ireland. *The Coleopterist* **3**: 77.

—— (1996) Identification of *Philonthus furcifer* Renkonen (Col.: Staphylinidae). *Entomologist's Rec. J. Var.* **108**: 64.

—— (1996) *Harpalus* (*Pseudophonus*) *griseus* Panzer (Col.: Carabidae) at Wimbledon, Surrey - the first definitely British record? *Entomologist's Rec. J. Var.* **108**: 69-72.

—— (1996) A second site for *Otiorhyncus uncinatus* Germar (Coleoptera) in Co Tipperary. *Ir. Nat. J.* **25**: 267.

—— (1997) Beetles (Coleoptera) recorded from various Irish sites in 1993, 1994 and 1996. *Bulletin of the Irish Biogeographical Society* **20**: 136-154.

—— (2002) *Bledius femoralis* (Gyllenhal) (Coleoptera) new to Ireland. *Ir. Nat. J.* **26** (2001): 429-430.

Özdikmen, H. (2007) The longicorn beetles of Turkey (Coleoptera: Cerambycidae) Part I - Black Sea Region. *Munis Entomology & Zoology* **2**: 179-422.

Özdikmen, H. (2008) The longicorn beetles of Turkey (Coleoptera: Cerambycidae) Part II - Marmara Region. *Munis Entomology & Zoology* **3**: 7-152. (*Gracilia minuta*, *Nathrius brevipennis*)

Parker, W. E. and Howard, J. J. (2001) The biology and management of wireworms (*Agriotes* spp.) on potato with particular reference to the U.K. *Agricultural and Forest Entomology* **3**: 85-98.

Pasnik, G. (2006) A revision of the world species of the genus *Tachyusa* Erichson, 1837 (Coleoptera, Staphylinidae: Aleocharinae). *Zootaxa* **1146**: 1-152.

Patterson, R. (1885) A list of Irish Coleoptera collected mainly by the late Robert Patterson, Esq., F.R.S., in the year 1829, (ed. Stewart, S. A.). *Proceedings of the Belfast Naturalists' Field Club* **2**, Appendix 9: 317-326.

Patterson, W. H. and Donnan, W. D. (1892) Coleoptera of the Holywood District. *Ir. Nat.* **1**: 103-104.

Pavićević, A. and Pešić, V. (2010) First record of *Hydrochus ignicollis* (Coleoptera, Hydrochidae) from Serbia and Montenegro. *Natura Montengrina, Podgorica* **9**: 369-371.

Paviour-Smith, K. (1964) Habitats, headquarters and distribution of *Tetratoma fungorum* F. (Col., Tetratomidae). *Entomologist's mon. Mag.* **100**: 71-80.

Peacock, E. R. (1977) Coleoptera Rhizophagidae. *Handbooks for the Identification of British Insects* **5**(5a): 1-99.

—— (1993) Adults and larvae of hide, larder and carpet beetles and their relatives (Coleoptera: Dermestidae) and of derodontid beetles (Coleoptera: Derodontidae). *Handbooks for the Identification of British Insects* **5**(3): 1-144.

Pearce, E. J. (1936) New haliplid records for Southern Ireland. *Entomologist's mon. Mag.* **72**: 44-46.

—— (1937) Notes on the feeding-habits, etc. of some British Haliplidae. *Entomologist's mon. Mag.* **73**: 1-6.

—— (1937) Notes on, and additional records for, some Irish Haliplidae (Aquatic Coleoptera), with special reference to Lough Derg. *Ir. Nat. J.* **6**: 228-231.

—— (1939) New and additional haliplid records for Eire and some notes on variation in British specimens of *Haliplus fulvus* F. (Coleopt.). *Entomologist's mon. Mag.* **75**: 32-36.

—— (1939) *Deronectes griseostriatus* De G. and *Hygrobia tarda* Herbst. (Col.) from the same Irish locality. *Entomologist's mon. Mag.* **75**: 126.

—— (1948) Pselaphidae (Col.) - new county records. *Entomologist's mon. Mag.* **84**: 87-88.

—— (1951) A revision of the British species of the Genus *Bibloplectus* Reitter (Col., Pselaphidae) with descriptions of two species new to science. *Entomologist's mon. Mag.* **87**: 65-83.

—— (1954) *Bryaxis laminatus* Mots. (Col., Pselaphidae): an addition to the British list. *Entomologist's mon. Mag.* **90**: 202-203.

—— (1957) Coleoptera (Pselaphidae). *Handbooks for the Identification of British Insects* **4**(9): 1-32.

Phillips, C. B., Iline, I. I., Vink, C. J., Winder, L. M. and McNeill, M. R. (2006) Methods to distinguish between the *Microctonus aethiopoides* strains that parasitise *Sitona lepidus* and *Sitona discoideus*. *New Zealand Plant Protection* **59**: 297-303.

Phillips, K. C. J. (1923) The larva of a hydrophilid beetle, *Megasternum boletophagum. Ir. Nat.* **32**: 109-112.

Phillips, R. A. (1924) *Adalia bipunctata* and other ladybirds in Co. Cork. *Ir. Nat.* **33**: 8.

Poole, A., Gormally, M. and Sheehy Skeffington, M. (2003) The flora and carabid beetle fauna of a mature and regenerating semi-natural oak woodland in south-east Ireland. *Forest Ecology and Management* **177**: 207-220.

Pope, R. D. (1973) The species of *Scymnus* (s. str.), *Scymnus* (*Pullus*) and *Nephus* (Col., Coccinellidae) occurring in the British Isles. *Entomologist's mon. Mag.* **109**: 3-39.

—— (1977) Brachyptery and wing-polymorphism among the Coccinellidae (Coleoptera). *Systematic Entomology* **2**: 59-66.

Porter, E. (1895) *Hepialus humuli*, &c., in Ireland. *Entomologist's Rec. J. Var.* **6**: 238. (Col., Lep.)

—— (1898) Coleoptera of Upper Lough Erne, Co. Fermanagh. *Ir. Nat.* **7**: 48-49.

Power, J. A. (1878) A list of new species of Coleoptera, which have been added to the British fauna during the years 1872 and 1877 inclusive. *Entomologist* **11**: 62-69.

Praeger, R. L. (1903) Beetles in the broth. *Ir. Nat.* **12**: 108.

Purvis, G. and Curry, J. P. (1984) The influence of weeds and farmyard manure on the activity of Carabidae and other ground-dwelling arthropods in a sugar beet crop. *Journal of Applied Ecology* **21**: 271-283. (Col.: named to species)

Purvis, G. and Fadl, A. (2002) The influence of cropping rotations and soil cultivation practice on the population ecology of carabids (Coleoptera: Carabidae) in arable land. *Pedobiologia* **46**: 452-474.

Purvis, G., Fadl, A. and Bolger, T. (2001) A multivariate analysis of cropping effects on Irish ground beetle assemblages (Coleoptera: Carabidae) in mixed arable and grass farmland. *Annals of Applied Biology* **139**: 351-360.

Quirke, D. A. (1943) *Eccoptogaster scolytus* F. (Col., Ipidae) in Ireland. *Entomologist's mon. Mag.* **79**: 198.

Ramsay, A. J. (2010) A second Irish record of *Hypera suspiciosa* (Herbst) (Coleoptera: Curculionidae). *Ir. Nat. J.* **30** (2009): 145.

Read, R. W. J. (1979) Records of Curculionidae (Col.) taken in Cumberland (VC70). *Entomologist's Rec. J. Var.* **91**: 27-28.

—— (1982) *Mesites tardii* (Curtis) (Coleoptera: Curculionidae) new to West Cumbria, with notes on the species in Britain. *Entomologist's Gazette* **33**: 233-242.

Redfern, M. (1995) *Insects and thistles*. *Naturalists' Handbooks* **4**. Revised edition. The Richmond Publishing Co., Slough. (mention of *Cassida vibex*)

Redfern, M., Shirley, P. and Bloxham, M. (2011) *British plant galls.* Second edition. FSC. Occasional Publication **125**. iv + 432pp. (*Ischnopterapion modestum*, *Mecinus collaris*)

Regan, E. (2009) A modern Irish record for *Ophonus puncticeps* (Stephens) (Carabidae). *The Coleopterist* **18**: 144.

—— (2009) *Irish butterflies and insects*. Appletree Press, Belfast.

Regan, E. and Foster, G. (2009) Water beetles of Ireland website. *The Coleopterist* **18**: 152.

Regan, E. and McCormack, S. (2008) *Ochthbius poweri* Rye (Hydraenidae), new to Ireland from Co. Waterford. *The Coleopterist* **17**: 124.

—— (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Regan, E. C. (2005) Further records of carabid beetles from turloughs. *Ir. Nat. J.* **28**: 59-61.

Regan, E. C. and Anderson, R. (2004) Terrestrial Coleoptera recorded in Ireland, May 2003. *Bulletin of the Irish Biogeographical Society* **28**: 85-132.

Regan, E. C. and Moran, J. (2005) *Thanatophilus dispar* (Herbst) (Silphidae) in turloughs in the west of Ireland. *The Coleopterist* **14**: 89-91.

Reid, C. (1976) *Scymnus schmidti* Fursch (Col., Coccinellidae) new to Ireland. *Entomologist's mon. Mag.* **111** (1975): 103.

Reid, C. A. M. and De Little, D. W. (2013) A new species of *Paropsisterna* Motschulsky, 1860, a significant pest of plantation eucalypts in Tasmania and Ireland (Coleoptera: Chrysomelidae: Chrysomelinae*). Zootaxa* **3681**: 395-404.

Reid, C. A. M. and Leonard, K. (2015) *Diplapion confluens* (Kirby) (Coleoptera: Brentidae), new for Northern Ireland, at Lighthouse Island, County Down, with notes on other insects at this locality. *Ir. Nat. J.* **34**: 135-136. (Col., Lep.)

Reilly, E. (1996) The insect fauna (Coleoptera) from the Neolithic trackways Corlea 9 and 10: the environmental implications. Pp 403-411. *In* Raftery, B. (ed.) *Trackway excavations in the Mountdillon Bogs, Co. Longford, 1985-1991*. Irish Archaeological Wetland Unit Transactions **3**. UCD Publication, Dublin.

—— (2005) Coleoptera. Pp 187-209. *In* Gowen, M., O'Neill, J. and Phillips, M. (eds) *The Lisheen Mine Archaeological Project 1996-8*. Wordwell Press, Dublin.

—— (2008) An ever-closing gap? Modern ecological and palaeoecological contributions towards understanding the Irish post-glacial insect fauna. Pp 63-71. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

—— (2014) From Christchurch Place to Fishamble Street: Developments in archaeoentomology in Dublin, Ireland, since 1981. *Quaternary International* <http://dx.doi.org/10.1016/j.quaint.2014.01.021>

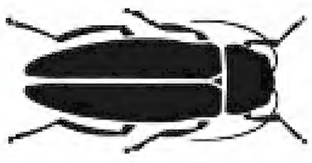
Rejzek, M. (2004) Check-list of Cerambycidae (Col.) of the British Isles. *Entomologist's mon. Mag.* **140**: 51-57.

Renouf, L. P. W. (1932) The beetle *Ptinus tectus* Boiel. in Ireland. *Ir. Nat. J.* **4**: 57.

Reynolds, J. D. (1985) Karstic freshwater habitats of the Aran Islands, Co Galway, with preliminary notes on their fauna. *Ir. Nat. J.* **21**: 430-435.

—— (1986) Some invertebrates of Lough Roe, Co. Offaly: a rare and endangered bogland habitat. *Bulletin of the Irish Biogeographical Society* **9**: 41-45.

—— (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684.



Reynolds, J. D. (2008) Man-handled? How and when did freshwater invertebrates cross the sea to Ireland? A review with particular reference to crustaceans. Pp 83-95. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

—— (2014) Preliminary notes on three turloughs (temporary ponds overlying karst) in County Limerick, with comments on their vegetation and water beetle fauna. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 265-269.

Reynolds, J. D., Cooke, D., Simon, N., Allott, N. and Brennan, M. (1994) Macroinvertebrate communities of poorly buffered afforested and non-afforested streams in western Ireland. *Verh. Internat. Verein. Limnol.* **25**: 1496-1501.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Reynolds, J. D. and Foster, G. N. (2009) Rediscovery of the chrysomelid beetle *Plateumaris bracata* (Scopoli) (Coleoptera: Chrysomelidae) in Ireland. *Ir. Nat. J.* **30**: 67.

Reynolds, J. D. and Hunter, C. (1985) Evaluation of the use of artificial substrates in sampling the invertebrate fauna of sewage fungus slimes in Irish rivers. *Verh. Internat. Verein. Limnol.* **22**: 2239-2243.

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream - and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730.

Ribbands, B., Brown, P. M. J., Roy, H. E. and Majerus, M. E. N. (2009) The most northerly record of the Harlequin Ladybird (Col., Coccinellidae) in the British Isles. *Entomologist's mon. Mag.* **145**: 43-44. (mention of Irish record)

Ribera, I., Castro, A., Díaz, J. A., Garrido, J., Izquierdo, A., Jäch, M. A. and Valladares, L. F. (2011) The geography of speciation in narrow range endemics of the '*Haenydra*' lineage (Coleoptera, Hydraenidae, *Hydraena*). *Journal of Biogeography* **38**: 502-516. (*H. gracilis*)

Ribera, I., Castro, A. and Hernando, C. (2010) *Ochthebius* (*Enicocerus*) *aguilerai* sp.n. from central Spain, with a molecular phylogeny of the Western Palaearctic species of *Enicocerus* (Coleoptera, Hydraenidae). *Zootaxa* **2351**: 1-13.

Ribera, I and Foster, G. N. (1991) *Hydroporus longicornis* Sharp (Coleoptera: Dytiscidae) rediscovered in Ireland. *Ir. Nat. J.* **23**: 507.

Richards, O. W. (1960) A species of *Apion* (Col., Curculionidae) new to Ireland. *Entomologist's mon. Mag.* **96**: 4.

Ridley, H. N. (1884) *Carabus glabratus*, Payk. *Entomologist's mon. Mag.* **20**: 214.

Roche, G. (1963) The golden buprestid beetle *Buprestis aurulenta* L.: first Irish record. *Ir. Nat. J.* **14**: 182.

—— (1963) *Buprestis aurulenta* L. (Col., Buprestidae) in Ireland. *Entomologist's mon. Mag.* **99**: 42.

Ronayne, C. and O'Connor, J. P. (2006) *Halictoxenos tumulorum* Perkins and *H. spencei* Nassonov (Strepsipt., Stylopidae) new to Ireland. *Entomologist's mon. Mag.* **142**: 92.

Roy, H. and Brown, P. (2018) *Field guide to the ladybirds of Great Britain and Ireland.* Bloomsbury, London.

Roy, H. E. and Brown, P. M. J. (2015) Ten years of invasion: *Harmonia axyridis* (Pallas) (Coleoptera: Coccinellidae) in Britain. *Ecological Entomology* **40**: 336-348.

Roy, H. E., Brown, P. M. J., Frost, R. and Poland, R. L. (2011) *Ladybirds (Coccinellidae) of Britain and Ireland.* Field Studies Council, Shrewsbury. 198pp.

Russo, L., Memmott, J., Montoya, D., Shea, K. and Buckley, Y. M. (2014) Patterns of introduced species interactions affect multiple aspects of network structure in plant-pollinator communities. *Ecology* **95**: 2953-2963.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Ryan, M. F. and Behan, M. (1973) The sensory receptors of *Tribolium* larvae. *Physiological Zoology* **46**: 238-244.

Ryan, M. F., Clare, N. and Cole, A. J. (1978) A comparative study of coprophilic beetles in pasture over a peat and a mineral soil. *In* The Proceedings and Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society Ser. A* **6**: 215-221.

Ryan, M. F. and O'Ceallachain, D. P. (1979) Aggregation and sex pheromones in *Tribolium confusum* (Dv.). *Journal of Insect Physiology* **22**: 1501-1503.

Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60.

Rye, E. C. (1864) Coleoptera. New British species, corrections, etc., noticed since the publication of the Entomologist's Annual, 1863. *The Entomologist's Annual* **1864**: 30-86.

—— (1865) Descriptions of the British species of *Stenus*. *Entomologist's mon. Mag.* **1**: 36-43.

—— (1865) Coleoptera. New British species, corrections of nomenclature &c., noticed since the publication of the Entomologist's Annual, 1864. *The Entomologist's Annual* **1865**: 37-80.

—— (1876) Notes on British Coleoptera, with descriptions of three new species. *Entomologist's mon. Mag.* **12**: 175-180.

Sage, B. L. and French, P. (2015) *Paropsisterna selmani* Reid & de Little (Chrysomelidae) in Middlesex, notes on the first English record. *The Coleopterist* **24**: 162-163.

Salisbury, A. (2003) A further note on the continued spread in Britain of the lily beetle *Lilioceris lilii* (Scopoli) (Chrysomelidae), with notes on its host plant range. *The Coleopterist* **12**: 67-75.

Salisbury, A. and Broad, G. (2011) The hyperparasitoid *Mesochorus lilioceriphilus* (Hymenoptera: Ichneumonidae), an addition to the parasitoid complex of the lily beetle in Britain. *British Journal of Entomology and Natural History* **24**: 95-99. (number of *Mesochorus* species in Britain and Ireland)

Salisbury, A. and Halstead, A. (2012) Garden Entomology. The work of the Royal Horticultural Society's entomologists. *Antenna* **36**: 102-112. (Rosemary beetle: *Chrysolina americana*; Lily beetle: *Lilioceris lilii*)

Schaum, H. (1849) Remarks on the British Geodephaga; with notes on some Scydmaenidae and Pselaphidae. *Annals and Magazine of Natural History* Series 2. **3**: 32-39.

Scherer, G. (1978) Chrysomelidae: Donaciinae. Pp 319-322. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Schilthuizen, M. (2010) *Catops borealis* Krogerus, 1931, new to the British fauna, and some notes on other British Cholevinae (Leiodidae). *The Coleopterist* **19**: 1-9.

Scott, D. (2005) The diet of hen harriers *Circus cyaneus* in Northern Ireland 1991-2005. *Irish Birds* **7**: 597-599.

Serri, S. and Frisch, J. (2016) Species diversity, chorology, and biogeography of the Steninae MacLeay, 1825 of Iran, with comparative notes on *Scopaeus* Erichson, 1839 (Coleoptera, Staphylinidae). *Deutsche Entomologische Zeitschrift* **63**: 17-44. (*Stenus incrassatus*)

Sharp, D. (1865) Note on *Tachyporus ruficollis*, Grav. *Entomologist's mon. Mag.* **2**: 157-158. (no locality)

—— (1914) A new species of *Helophorus*. *Entomologist's mon. Mag.* **50**: 103 -104.

—— (1914) The British species of *Gyrinus*. *Entomologist's mon. Mag.* **50**: 128-138. (no locality)

—— (1915) Studies in Helophorini. *Entomologist's mon. Mag.* **51**: 233-238.

—— (1916) Studies in Helophorini. *Entomologist's mon. Mag.* **52**: 164-177.

—— (1917) Studies in Rhynchophora. *Entomologist's mon. Mag.* **53**: 100-108.

Sharp, W. E. (1893) The Coleopterist in Ireland, Dublin County-North Coast. *Ir. Nat.* **2**: 139-144, 160-162.

—— (1894) February Coleoptera from Armagh. *Ir. Nat.* **3**: 133-135.

—— (1901) Notes on the distribution of the British Coleoptera. *Entomologist's Rec. J. Var.* **13**: 270-271, 293-296.

—— (1904) *Agabus* (*Eriglenus*) *unguicularis*, Thoms, and *A.* (*Gaurodytes*) *affinis*, Payk. *Entomologist's Rec. J. Var.* **16**: 90-92.

—— (1910) Notes on some Irish Coleoptera. *Ir. Nat.* **19**: 245-247.

—— (1910) The food-plant of *Otiorrhynchus auropunctatus*, Gyll. *Entomologist's mon. Mag.* **46**: 33-34.

—— (1912) A note on certain British. species of the coleopterous Genus *Lathrobium*, Grav. *Entomologist's Rec. J. Var.* **24**: 259-260.

—— (1913) The range of *Phosphuga subrotundata*, Steph. *Entomologist's mon. Mag.* **49**: 255.

Shaw, J. J. (2014) *Aromia moschata* (Linnaeus) (Cerambycidae), recent Irish record and other Coleoptera from south-west Ireland. *The Coleopterist* **23**: 93.

Sheehy Skeffington, M., Moran, J., O'Connor, Á., Regan, E., Coxon, C. E., Scott, N. E. and Gormally, M. (2006) Turloughs - Ireland's unique wetland. *Biological Conservation* **133**: 265-290.

Shephard, G. (1970) *Dyschirius obscurus* Gyll, (Col., Carabidae) in Sussex, and a key to the British species of the genus. *Entomologist's mon. Mag.* **106**: 91-94.

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106.

Shute, S. L. (1976) *Longitarsus jacobaeae* Waterhouse (Col., Chrysomelidae): identity and distribution. *Entomologist's mon. Mag.* **111** (1975): 33-39.

—— (1980) Wing-polymorphism in British species of *Longitarsus* beetles (Chrysomelidae: Alticinae). *Systematic Entomology* **5**: 437-448.

Sidebotham, J. (1868) Localities for *Mesites tardii. Entomologist's mon. Mag.* **5**: 99.

Sleeman, D. P. (1979) Epifauna from some Ulster mamnals. *Bulletin of the Irish Biogeographical Society* **3**: 47-50. (Anop., Col., Mall.)

—— (1983) Dead rats, burying beetles and mites in west Cork. *Ir. Nat. J.* **21**: 186.

Sleeman, D. P. and Hutton, S. A. (2005) Dung-beetles *Geotrupes stercorarius* (L.) (Coleoptera: Geotrupidae) detected in diet of mink on Gola Island, Co Donegal. *Ir. Nat. J.* **28**: 136.

Smiddy, P. and Cullen, C. (2005) Late winter diet of short-eared owls *Asio flammeus* in East Cork. *Irish Birds* **7**: 517-522.

Smith, D. N., Letts, J. and Jones, M. (2005) Modern Coleoptera from non-cereal thatch: a poor analogue for roofing material from the archaeological record. *Environmental Archaeology* **10**: 171-178.

Smith, M. N. (2004) *Hydroporus neglectus* Schaum, 1845 (Coleoptera: Dytiscidae) new to Ireland. *Ir. Nat. J.* **27**: 401-402.

Somerville, J. E. (1868) *Dytiscus lapponicus* in Ireland. *Entomologist's mon. Mag.* **5**: 141-142.

Speight, M. C. D. (1972) Ground beetles (Col. Carabidae) from the Bourn Vincent National Park. *Ir. Nat. J.* **17**: 226-230.

—— (1976) *Amara montivaga* Sturm (Col., Carabidae) in Ireland. *Entomologist's mon. Mag.* **111** (1975): 200.

—— (1976) *Agonum livens*, *Asemum striatum* and *Xylota coerulieventris*: insects new to Ireland. *Ir. Nat. J.* **18**: 274-275.

—— (1976) *Badister meridionalis*, *Megasyrphus annulipes* and *Wesmaelius quadrifasciatus*: insects new to Ireland. *Ir. Nat. J.* **18**: 303-304.

—— (1977) Athlone Field Meeting: insects collected on and near the shores of Lough Ree. *Bulletin of the Irish Biogeographical Society* **1**: 27-36. (includes *Chlaenius tristis*)

—— (1977) Notes on three ground beetles (Coleoptera: Carabidae) *Dyschirius luedersi* new to Ireland, *Badister peltatus* and *Chlaenius tristis* reinstated as Irish. *Ir. Nat. J.* **19**: 116-118.

—— (1983) Beetles: Order Coleoptera. Pp 171-172, 498-499. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

—— (1985) Sycamore: a host for *Ischnomera sanguinicollis* (Coleoptera: Oedemeridae) and *Melanotus erythropus* (Coleoptera: Elateridae) in Co Wicklow. *Ir. Nat. J.* **21**: 488-490.

—— (1985) Present-day use of prehistoric pine timber ("bog - deal") by woodboring insects and its faunal implications. *Ir. Nat. J.* **21**: 448-449.

—— (1985) The extinction of indigenous *Pinus sylvestris* in Ireland: relevant faunal data. *Ir. Nat. J.* **21**: 449-453.

Speight, M. C. D. (1986) *Asaphidion curtum*, *Dorylomorpha maculata*, *Selatosomus melancholicus* and *Syntormon miki*: insects new to Ireland. *Ir. Nat. J.* **22**: 20-23.

—— (1986) *Cheilosia argentifrons* (Diptera: Syrphidae) new to Ireland; *Donacia cinerea* (Coleoptera: Chrysomelidae) and *Palloptera muliebris* (Diptera: Pallopteridae), presence in Ireland confirmed. *Ir. Nat. J.* **22**: 159-160.

—— (1986) Use of invertebrates, as exemplified by certain insect groups, in considering hypotheses about the history of the Irish postglacial fauna. Pp 60-66. *In* Sleeman, D. P., Devoy, R. J. and Woodman, P. C. (eds) *Proceedings of The Postglacial Colonization Conference. Occasional Publication of the Irish Biogeographical Society* **Number 1**.

—— (1988) The Irish cerambycid fauna (Coleoptera: Cerambycidae). *Bulletin of the Irish Biogeographical Society* **11**: 41-76.

—— (1988) Interactions between taxonomy, biogeography and conservation, exemplified by the case histories of some Irish insects. Pp 129-140. *In* Moriarty, C. (ed.) *Taxonomy - putting plants and animals in their place.* Royal Irish Academy, Dublin.

—— (1989) Some Irish records of the genera *Glischrochilus* and *Soronia* (Coleoptera: Nitidulidae). *Bulletin of the Irish Biogeographical Society* **12**: 18-21.

—— (1989) The Irish elaterid and buprestid fauna (Coleoptera: Elateridae and Buprestidae). *Bulletin of the Irish Biogeographical Society* **12**: 31-62.

—— (1990) *Pyropterus nigroruber* (DeGeer) in Ireland (Coleoptera: Lycidae), with a key to distinguish this beetle from related European species. *Bulletin of the Irish Biogeographical Society* **13**: 166-172.

—— (1990) *Hippodamia 13-punctata* (Coleoptera: Coccinellidae) and other insects from All Saints Bog, Co. Offaly, Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 200-212.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60.

Speight, M. C. D., Anderson, R. and Luff, M. L. (1983) An annotated list of the Irish ground beetles (Col., Carabidae and Cicindelidae). *Bulletin of the Irish Biogeographical Society* **6**: 25-53.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Speight, M. C. D., Martinez, M. and Luff, M. L. (1986) The *Asaphidion* (Col.: Carabidae) species occurring in Great Britain and Ireland. *Proceedings and Transactions of the British Entomological and Natural History Society* **19**: 17-21.

Starkey, J. S. (1900) Beetle records from Co. Wicklow. *Ir. Nat.* **9**: 108.

Steel, W. O. (1946) On *Xantholinus distans* Muls. and Rey and *X. cribripennis* Fvl. with notes on other British species of the genus (Col., Staphylinidae). *Entomologist's mon. Mag.* **82**: 192-195.

Steel, W. O. (1956) *Carpelimus subtilicornis* (Roubal) (= *strandi* Scheerpeltz), a staphylinid (Col.) new to Britain. *Entomologist's mon. Mag.* **92**: 265-267.

Stelfox, A. W. (1923) An enemy of the Wireworm. *Ir. Nat.* **32**: 44. (Col., Dipt.)

—— (1924) A staphylinid beetle new to Ireland. *Ir. Nat.* **33**: 67.

—— (1929) A new and interesting Irish beetle from wasps' nest *Metoecus paradoxus*, L. *Ir. Nat. J.* **2**: 197-199. (Col., Hym.)

—— (1935) New Irish beetle from Co. Carlow. *Ir. Nat. J.* **5**: 286.

—— (1936) A rare Irish click-beetle common in West Mayo. *Ir. Nat. J.* **6**: 125.

—— (1936) Furniture Beetle larvae boring through books. *Ir. Nat. J.* **6**: 25.

—— (1937) Notes on the distribution in Ireland of the long-horn beetles, *Strangalia aurulenta*, *S. quadrifasciata* and *S. armata. Ir. Nat. J.* **6**: 156-158.

—— (1941) On the occurrence of *Bledius unicornis* Gmel., (Col., Staphylinidae) in Ireland. *Entomologist's mon. Mag.* **77**: 250.

—— (1942) A rare beetle, *Elmis aeneus*, in the Boyne Valley. *Ir. Nat. J.* **8**: 44.

—— (1943) The longhorn, *Strangalia quadrifasciata* in West Wicklow. *Ir. Nat. J.* **8**: 84.

—— (1947) *Corymbites pectinicornis* L., a click beetle not on the Irish List, in South Tipperary. *Ir. Nat. J.* **9**: 21.

—— (1952) *Dacne bipustulata* Thunberg: a new Irish beetle. *Ir. Nat. J.* **10**: 300.

—— (1961) A note on the holly weevil (*Mesites tardyi* Curtis) and the food of its larva. *Entomologist's mon. Mag.* **97**: 239.

Stendall, J. A. S. (1938) *Tribolium ferrugineum* F. in Belfast. *Ir. Nat. J.* **7**: 87.

—— (1947) *Acanthocinus aedilis* in Belfast. *Ir. Nat. J.* **9**: 99.

Stenhouse, D. A. (2016) Correction and addition to *Trechus subnotatus* Dejean records (Carabidae) in Britain and Ireland. *The Coleopterist* **25**: 24.

Stenhouse, D. A. and Hammond, P. M. (2015) New localities for *Trechus subnotatus* Dejean (Carabidae) in Britain and Ireland with a review of known records. *The Coleopterist* **24**: 147-154.

Stephens, J. F. (1839) *A manual of British Coleoptera, or beetles : containing a brief description of all the species of beetles hitherto ascertained to inhabit Great Britain and Ireland together wth a notice of their chief localities, times and places of appearances, etc.* Longman, Orme, Brown, Green, and Longmans, London.

Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast.

Stout, J. C. (2007) Pollination of invasive *Rhododendron ponticum* in Ireland. *Apidologie* **38**: 198-206.

Sutton, P. (2002) Insects of conservation importance on RSPB reserves. *Bulletin of the Amateur Entomologists' Society* **61**: 11-21. (*Dyschirius obscurus*)

—— (2008) *The larger water beetles of the British Isles*. Amateur Entomologists' Society, Orpington.

Sutton, P. G. (2003) The British stag beetle family (Coleoptera: Lucanidae). *Bulletin of the Amateur Entomologists' Society* **62**: 248-261. (*Dorcus parallelipipidus*, *Sinodendron cylindricum*)

Sutton, P. G. and Browne, D. E. (2001) British tiger beetles. *Bulletin of the Amateur Entomologists' Society* **60**: 21-35, plates 01h-01k. (mention of *Cicindela campestris*)

Sutton, P. G. and Wilkins, P. (2004) The larger water beetles of the British Isles. *Bulletin of the Amateur Entomologists' Society* **63**: 168-215.

Swain, I. (1907) (Review of "The Soils of Ireland"). *Ir. Nat.* **16**: 340-342. (pine weevil)

Taylor, J. M. (1959) *Plutothrix coelius* (Walker) (Hym., Cleonymidae) a little known parasite of *Anobium punctatum* Degeer (Col.). *Entomologist's mon. Mag.* **95**: 236.

Telfer, M. G. (2007) *Macrorhyncolus littoralis* (Broun) (Curculionidae) new to Ireland. *The Coleopterist* **16**: 118.

—— (2009) Seven beetles new to Ireland, seven new to Northern Ireland and other noteworthy discoveries. *The Coleopterist* **18**: 121-129.

—— (2018) 2017 Annual Exhibition. *British Journal of Entomology and Natural History* **31**: 117. (Col.: *Sphaerius acaroides* new to Ireland)

Telfer, M. G. and Hogan, J. (2015) The status of *Carabus convexus* Fabricius (Carabidae) in Britain and Ireland. *The Coleopterist* **24**: 106-112.

Telnov, D. (2010) Ant-like flower beetles (Coleoptera: Anthicidae) of the UK, Ireland and Channel Isles. *British Journal of Entomology and Natural History* **23**: 99-117.

Thompson, R. T. (1958) Coleoptera (Phalacridae). *Handbooks for the Identification of British Insects* **5**(5b): 1-17.

Tierney, D., Bradley, C., Kelly-Quinn, M. and Murray, D. (2002) Modern records of *Hydraena minutissima* Stephens, 1829 and of *Agabus biguttatus* Olivier, 1795 (Coleoptera) from Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 220-223.

Tierney, D., Kelly-Quinn, M. and Bracken, J. J. (1998) The faunal communities of upland streams in the eastern region of Ireland with reference to afforestation impacts. *Hydrobiologia* **389**: 115-130.

Todd, W. D. M. (1993) Plant health legislation in Northern Ireland in 1990. Pp 153-160. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Colorado beetle)

Tomlin, B. (1894) Coleoptera from Port Ballintrae, Co. Antrim. *Ir. Nat.* **3**: 23-24.

—— (1895) Rose Beetle in Ireland. *Ir. Nat.* **4**: 348.

—— (1903) Varieties of *Aphthona nonstriata*, Goeze. *Entomologist's Rec. J. Var.* **15**: 18.

—— (1904) *Tropiphorus obtusus*, Boisd. *Entomologist's Rec. J. Var.* **16**: 78.

Tomlin, J. R. Le B. (1908) *Scymnus pulchellus*, Herbst. *Entomologist's mon. Mag.* **44**: 185.

—— (1909) (exhibited *Micropeplus caelatus* Er.). *Proceedings of the Entomological Society of London* **1909**: 32.

Tomlin, J. R. Le B. and Joy, N. H. (1914) Coleoptera at Cloghane, Co. Kerry. *Entomologist's mon. Mag.* **50**: 214-217.

Tomlin, J. R. Le B. and Sharp, W. E. (1911) Notes on the British species of *Longitarsus*, Latr. (a Genus of Coleoptera). *Entomologist's mon. Mag.* **47**: 241-248, 274-275.

Toner, P. F. and O'Connell, C. (1971) Water quality investigations in the River Blackwater and River Martin, Co. Cork 1966-1969. *Irish Fisheries Investigations Series A* **No. 8**.

Tottenham, C. E. (1931) Note on *Staphylinus globulifer* Fourc. and allied species. *Entomologist's mon. Mag.* **67**: 59.

Tottenham, C. E. (1939) A species of *Philonthus* (Col., Staphylinidae) new to the British Isles and two new varieties. *Entomologist's mon. Mag.* **75**: 201-202.

—— (1940) The occurrence of both *Staphylinus caesareus* Ced. and *S. parumtomentosus* Stein. (Col.) in Britain. *Entomologist's mon. Mag.* **76**: 129-130.

—— (1941) Note on *Philonthus mequignoni* Jarrige (Col., Staphylinidae). *Entomologist's mon. Mag.* **77**: 58-59.

—— (1954) Coleoptera Staphylinidae section (a) Piestinae to Euaesthetinae. *Handbooks for the Identification of British Insects* **4**(8a), 1-79.

Tozer, E. R. (1973) On the British species of *Lathridus* Herbst (Col., Lathridiidae). *Entomologist's mon. Mag.* **108** (1972): 193-199, plate v.

Turgut, S., Ozdikmen, H. and Cebeci, H. (2010) *Oxymirus cursor* and *Leptura aurulenta* (Coleoptera: Cerambycidae): first records for Turkey. *Florida Entomologist* **93**: 516-518.

Tutt, J. W. (1901) Migration and dispersal of insects: Coleoptera. *Entomologist's Rec. J. Var.* **13**: 353-358.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management*. Royal Irish Academy, Dublin.

Uhthoff-Kaufmann, R. R. (1987) The distribution of the genus *Leptura* L. (Col.: Cerambycidae) in Great Britain. *Entomologist's Rec. J. Var.* **99**: 195-202.

—— (1988) The occurrence of the genus *Strangalia* Serville (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **100**: 63-71.

—— (1988) A revised key to the varieties of *Rhagium bifasciatum* F., (Col.: Cerambycidae). *Entomologist's Rec. J. Var.* **100**: 217-225.

—— (1989) The occurrence of *Grammoptera* Serville and *Alosterna* Mulsant (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **101**: 97-103.

—— (1989) The occurrence and distribution of the genera *Acmaeops* Lec. and *Judolia* Muls. (Col.: Cerambycidae) in Great Britain. *Entomologist's Rec. J. Var.* **101**: 179-182.

—— (1989) The genera *Rhagium* F. and *Stenocorus* Müll. (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **101**: 241-248.

—— (1990) The occurrence of the sub - family Aseminae (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **102**: 55-63.

—— (1990) The genera *Clytus* Laich. and *Anaglyptus* Muls. (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **102**: 111-114.

—— (1990) The occurrence of the Callidini tribe (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **102**: 161-166.

—— (1990) The genera *Nathrius* Bréthes and *Molorchus* F. (Col.: Cerambycidae) in Great Britain. *Entomologist's Rec. J. Var.* **102**: 239-242.

—— (1990) The distribution of the genera *Trinophylum* Bates, *Gracilia* Serv., *Aromia* Serv., and *Hylotrupes* Serv. (Col.: Cerambycidae) in the British Isles. *Entomologist's Rec. J. Var.* **102**: 267-274.

—— (1991) The genera *Lamia* F., *Mesosa* Latr. and *Leiopus* Serv., (Col.: Lamiidae) in the British Isles. *Entomologist's Rec. J. Var.* **103**: 73-77.

Uhthoff-Kaufmann, R. R. (1991) The distribution and occurrence of *Acanthocinus* Dej. and *Agapanthia* Serv. (Col.: Lamiidae) in the British Isles. *Entomologist's Rec. J. Var.* **103**: 189-192.

—— (1991) The genus *Pogonocherus* Zett. (Col.: Lamiidae) in the British Isles. *Entomologist's Rec. J. Var.* **103**: 243-246.

—— (1992) The genera *Oberea* Muls., *Stenostola* Muls., *Phytoecia* Muls. and *Tetrops* Steph. (Col.: Lamiidae) in Great Britain. *Entomologist's Rec. J. Var.* **104**: 3-7.

Urban, J. (2007) Occurrence, biology and harmfulness of *Galerucella lineola* (F.) (Coleoptera, Chrysomelidae) - Part 1. Last year's (parent) beetles. *Journal of Forest Science* **53**: 364-380.

Vafaei, R., Darilmaz, M. C., Nazari, E., Incekara, U. and Piazak, N. (2009) Contributions to the knowledge of Iranian aquatic Coleoptera fauna (Dytiscidae, Gyrinidae, Helophoridae and Hydrophilidae) with new records and notes on the rare species *Coleostoma transcaspicum* Reitter, 1906. *Acta Entomologica Serbica* **14**: 101-107.

van Vondel, B. J. (1991) Revision of the Palaearctic species of *Haliplus* subgenus *Liaphlus* Guignot (Coleoptera: Haliplidae). *Tijdschrift voor Entomologie* **134**: 75-144. (*H. flavicollis*, *H. variegatus*)

Vanbergen, A. J., Woodcock, B. A., Koivula, M., Niemelä, J., Kotze, D. J., Bolger, T., Golden, V., Dubs, F., Boulanger, G., Serrano, J., Lencina, J. L., Serrano, A., Aguiar, C., Grandchamp, A.-C., Stofer, S., Szél, G., Ivits, E., Adler, P., Markus, J. and Watt, A. D. (2010) Trophic level modulates carabid beetle responses to habitat and landscape structure: a pan-European study. *Ecological Entomology* **35**: 226-235.

Verdyck, P. (1992) The flea beetle *Phyllotreta* in Ireland. *Ir. Nat. J.* **24**: 84-85. (correspondence)

Vorst, O. (2009) *Cercyon castaneipennis* sp. n., an overlooked species from Europe (Coleoptera: Hydrophilidae). *Zootaxa* **2054**: 59-68.

Voss, E. (1978) Curculionidae. Pp 326-328. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Walker, J. J. (1880) *Carabus clathratus*, &c., in Ireland. *Entomologist's mon. Mag.* **17**: 42.

—— (1895) Coleoptera in Ireland. *Entomologist's mon. Mag.* **31**: 216-217.

—— (1895) Captures of Coleoptera in Ireland during the Spring of 1895. *Ir. Nat.* **4**: 207-212, 289-291.

—— (1932) The Dale Collection of British Coleoptera. *Entomologist's mon. Mag.* **68**: 21-28, 71-75.

Waloff, N. and Richards, O. W. (1958) The biology of the chrysomelid beetle *Phytodecta olivacea* (Forster) (Coleoptera: Chrysomelidae). *Transactions of the Royal Entomological Society of London* **110**: 99-116.

Walsh, G. B. (1926) The origin and distribution of the coast Coleoptera of the British Isles. *Entomologist's mon. Mag.* **62**: 221-231, 257-262.

—— (1937) *Atheta* (*Hygroecia*) *magniceps* Sahlb. in Britain. *Entomologist's mon. Mag.* **73**: 42-43.

Walsh, J. (2002) *Pyrochroa serraticornis* (Scopoli) (Coleoptera) rediscovered in Limerick. *Ir. Nat. J.* **26** (2001): 382.



Walsh, L., Gaffney, M., Malloch, G., Foster, S., Williamson, M., Mangan, R. and Purvis, G. (2019) First evidence of retained sexual capacity and survival in the pyrethroid resistant *Sitobion avenae* (F.) (Hemiptera: Aphididae) SA3 super-clone following exposure to a pyrethroid at current field-rate. *Irish Journal of Agricultural and Food Research* **58**: 21-26.

Walsh, P. F. (1993) Plant health legislation in the Republic of Ireland in 1990. Pp 137-152. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Colorado beetle)

Walton, J. (1847) Notes on the genus of insects *Trachyphloeus*, with descriptions of new species. *Annals and Magazine of Natural History* **19**: 217-223.

Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Ward, D. P., Smal, C. M. and Fairley, J. S. (1986) The food of mink *Mustela vison* in the Irish midlands. *Proceedings of the Royal Irish Academy* **86**B: 169-182. (Col. especially *Dytiscus*)

Weaving, H., Sands, B. and Wall, R. (2020) Reproductive sublethal effects of macrocyclic lactones and synthetic pyrethroids on the dung beetle *Onthophagus similis*. *Bulletin of Entomological Research* **110**: 195-200.

Weir, A. (1992) A plea for help with a flora of Laboulbeniales (Fungi: Ascomycotina) for Great Britain and Ireland. *The Coleopterist* **1**: 14-15. (seven known from Ireland)

Welch, R. C. (1969) Identification of the *Aleochara diversa* (J. Sahlberg) group (Col., Staphylinidae), including a species new to Britain. *Entomologist* **102**: 231-234.

—— (1982) *Aleochara villosa* Man. (Col., Staphylinidae) and other Coleoptera from a dovecote at Wytham, Oxford. *Entomologist's mon. Mag.* **117** (1981): 197.

—— (1986) *Coleoptera from Northern Ireland recorded during the Forest Entomology Group Meeting, 30 June-4 July 1986.* Institute of Terrestrial Ecology, Monk's Wood.

—— (1997) The British species of the genus *Aleochara* Gravenhorst (Staphylinidae). *The Coleopterist* **6**: 1-45. (*punctatella* - Lough Ree)

Welsh, R. (1899) (Exhibited Coleoptera). *Ir. Nat.* **8**: 46.

Weyman, G., Butler, F., Whelan, P., Fonteneau, J., McKeown, S., Bourke, S., Kane, A., O'Neill, F., O'Sullivan, J. E., van der Noll, L. and O'Reilly, M. (2019) First records of the Kidney Spot Ladybird (*Chilocorus renipustulatus*) (Coleoptera, Coccinellidae) in Ireland. *Ir. Nat. J.* **36**: 145-146.

Whitehead, P. F. (1991) *Badister meridionalis* Puel 1925 (Col., Carabidae) reconfirmed as British. *Entomologist's mon. Mag.* **127**: 116.

—— (2000) A recent English record of *Psylliodes attenuata* (Koch, J. D. W., 1803) (Coleoptera: Chrysomelidae) in a riparian situation. *Entomologist's Gazette* **51**: 129-131. (mentions published Irish record)

—— (2001) Hypotheses for the distribution and ecology of *Quedius schatmayri* Gridelli, 1922, and *Quedius semiaeneus* (Stephens, 1833) (Coleoptera: Staphylinidae). *Entomologist's Gazette* **52**: 277-289.

Whitehouse, N. J. (2006) The Holocene British and Irish ancient forest fossil beetle fauna: implications for forest history, biodiversity and faunal colonization. *Quaternary Science Reviews* **25**: 1755-1789.

—— (2007) Fossil insect remains in environmental investigations. Pp 136-163. *In* Murphy, E. and Whitehouse, N. J. (eds) *Environmental Archaeology in Ireland*. Oxbow Books, Oxford.

Williams, C. D. and Gormally, M. J. (2010) The effects of blanket bog management on ground beetles (Carabidae) with particular reference to the threatened *Carabus clatratus* L. *Irish Wildlife Manuals* **No. 47**. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin.

Williams, C. D., Hayes, M., McDonnell, R. J., Anderson, R., Bleasdale, A. and Gormally, M. J. (2014) Factors affecting wetland ground beetle (Carabidae) assemblages: how important are habitats, conservation designations and management? *Insect Conservation and Diversity* **7**: 206-222.

Williams, L., Moore, C., Hackett, M., Regan, E. and Nelson, B. (2009) In search of three Irish donaciine beetles: *Donacia dentata* Hoppe, *Donacia semicuprea* Panzer and *Plateumaris bracata* Scopoli (Coleoptera: Chrysomelidae) at Lough Crincaum, Cromaglan Mountain, Co. Kerry. *Ir. Nat. J.* **30**: 10-14.

Williams, S. A. (1980) *Gnypeta ripicola* (Kiesenw.) (Col., Staphylinidae) new to Britain. *Entomologist's mon. Mag.* **116**: 37-39.

—— (1980) Further notes on British *Oligota* (Col., Staphylinidae). *Entomologist's mon. Mag.* **116**: 57-58.

Wistow, S. and O'Connor, J. P. (1999) A recent record of *Apion* (*Diplapion*) *confluens* Kirby (Col., Brentidae). *Entomologist's mon. Mag.* **135**: 196.

Wollaston, T. V. (1847) Notes on the Coleoptera of the South of Ireland. *Zoologist* **5**: 1570-1576.

—— (1847) Descriptions of three newly-discovered British species of Coleoptera. *Annals and Magazine of Natural History* **18**: 452-453, plate.

Wood, T. (1887) *Pelophila borealis*: abnormal tarsi. *Entomologist's mon. Mag.* **24**: 16.

Woodcock, B. A., McCausland, K. A., Mann, D. J. and McGavin, G. C. (2004) Management of Irish oceanic blanket bog and its effect on ground beetles: implications for the conservation of the threatened *Carabus clathratus* L. (Coleoptera: Carabidae). *Bulletin of the Irish Biogeographical Society* **28**: 63-84.

Woodward, G., Bonada, N., Feeley, H. B. and Giller, P. S. (2015) Resilience of a stream community to extreme climatic events and long-term recovery from a catastrophic flood. *Freshwater Biology* **60**: 2497-2510.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.



CHAPTER 5. *COLLEMBOLA

Anon. (1907) (Powerscourt). *Ir. Nat.* **16**: 347. (*Isotoma bidenticulata*)

—— (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

Artuso, N., Kennedy, T. F., Connery, J., Grant, J. and Schmidt, O. (2011) Effects of biosolids at varying rates on earthworms (*Eisenia fetida*) and springtails (*Folsomia candida*). *Applied and Environmental Soil Science* **2011**. 10pp.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10.

Bagnall, R. S. (1939-1941) Notes on British Collembola. *Entomologist's mon. Mag.* **75**: 21-28, 56-59, 91-102, 188-200. **76**: 97-102, 163-174. **77**: 217-226.

—— (1949) Notes on British Collembola. *Entomologist's mon. Mag.* **85**: 51-61.

Bannon, E. and Purvis, G. (1993) Pests and diseases of agricultural crops. Pp 17-30. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Berg, M. P., Dimmers, W. J., Wynhoff, I., van Langevelde, F. and van Bezouw, R. F. H. M. (2015) De springstaarten *Folsomides angularis* en *F. parvulus* nieuw voor de Nederlandse fauna (Hexapoda: Collembola: Isotomidae). *Nederlandse Faunistische Mededelingen* **45**: 57-66.

Blackith, R. E. (1974) The ecology of Collembola in Irish blanket bogs (Irish contribution to I.B.P. programme No. 1). *Proceedings of the Royal Irish Academy* **74**B: 203-226.

Blackith, R. E. and Blackith, R. M. (1975) Zoogeographical and ecological determinants of collembolan distribution. (Irish contribution to I.B.P. programme No. 6). *Proceedings of the Royal Irish Academy* **75**B: 345-368.

Bolger, T. (1985) The rate of disappearance of *Salix* litter on cutaway bog and the microarthropods associated with it. *Pedobiologia* **28**: 145-153.

—— (1986) The Collembola of Ireland - a checklist and bibliography. *Proceedings of the Royal Irish Academy* **86**B: 183-218.

—— (1997) George Herbert Carpenter. Pp 1-3. *In* Bolger, T. (ed.) *Proceedings of IX International Colloquium on Apterygota, Dublin 1996. Pedobiologia* **41**: 1-224.

Bolger, T. and Curry, J. P. (1980) Effects of cattle slurry on soil arthropods in grassland. *Pedobiologia* **20**: 246-253. (named to species)

—— (1984) Influences of pig slurry on soil microarthropods in grassland. *Revue d'écologie et de biologie du sol* **21**: 269-281.

Bolger, T., Heneghan, L. and McCarthy, F. (1996) Pp 127-135. *In* Giller, P. S. and Myers, A. A. (eds) *Disturbance and recovery in ecological systems.* Royal Irish Academy, Dublin.

Bolger, T., Kenny, J. and Arroyo, J. (2013) The Collembola fauna of Irish forests - a comparison between forest type and microhabitats within the forests. *Soil Organisms* **85**: 61-67.



Brennan, A., Fortune, T. and Bolger, T. (2006) Collembola abundances and assemblage structures in conventionally tilled and conservation tillage arable systems. *Proceedings of the XIth International Colloquium on Apterygota, Rouen, France, 2004*. *Pedobiologia* **50**: 135-145.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Carpenter, G. H. (1895) Animals found in the Mitchelstown Cave. *Ir. Nat.* **4**: 25-35, 1 plate.

—— (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895. Collembola and Thysanura. *Ir. Nat.* **4**: 257.

—— (1895) (*Lipura wrightii*). *Ir. Nat.* **4**: 342.

—— (1897) The Collembola of Mitchelstown Cave. *Ir. Nat.* **6**: 225-233, 1 plate.

—— (1897) The Collembola of Mitchelstown Cave. Supplementary note. *Ir. Nat.* **6**: 257-258.

—— (1898) (*Isotoma litoralis*). *Ir. Nat.* **7**: 54.

—— (1902) On the insect fauna of some Irish caves. *Ir. Nat.* **11**: 282-283.

—— (1902) Aptera. Pp 216-217. In Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) Belfast, 1902. *A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club*. M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1904) Irish Field Club Union. Sligo Conference, Aptera. *Ir. Nat.* **13**: 197-198.

—— (1904) (*Xenylla brevicauda*). *Ir. Nat.* **13**: 290. **14**: 17.

—— (1907) Contributions to the natural history of Lambay. Aptera. *Ir. Nat.* **16**: 54-56, 1 plate.

—— (1907) (*Isotoma bidenticulata*). *Ir. Nat.* **16**: 345.

—— (1907) (*Isotoma tenella*). *Ir. Nat.* **16**: 371.

—— (1908) On two Collembola new to the Britannic fauna. *Ir. Nat.* **17**: 174-179.

—— (1908) Aptera. Pp 173-176. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1911) New Irish Apterygota. *Ir. Nat.* **20**: 81-85.

—— (1912) Clare Island Survey. 32. Apterygota. *Proceedings of the Royal Irish Academy* **31**(32): 13pp., 1 plate. (Coll., Thysanura)

Curry, J. P. (1987) Soil invertebrates as monitors of the effects of slurry and pesticide application. Pp 123-136. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin.

Curry, J. P. and Momen, F. M. (1988) The arthropod fauna of grassland on reclaimed cutaway peat in Central Ireland. *Pedobiologia* **32**: 99-109. (one named species)

Curry, J. P. and Purvis, G. (1982) Studies on the influence of weeds and farmyard manure on the arthropod fauna of sugar beet. *Journal of Life Sciences of the Royal Dublin Society* **3**: 397-408.

da Silva, P. M., Carvalho, F., Dirilgen, T., Stone, D., Creamer, R., Bolger, T. and Sousa, J. P. (2016) Traits of collembolan life-form indicate land use types and soil properties across an European transect. *Applied Soil Ecology* **97**: 69-77. <https://doi.org/10.1016/j.apsoil.2015.07.018>

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

Fernandes, L. H., Nessimian, J. L. and de Mendonça, M. C. (2009) Collembola Poduromorpha as bioindicator of anthropogenic impact on "Restinga" areas in the State of Rio de Janeiro, Brazil. *Arquivos do Museu Nacional, Rio de Janeiro* **67**: 41-59. (*Friesea claviseta*)

Fisher, N. (1935) Marine beetle at Greenisland, Co. Antrim. *Ir. Nat. J.* **5**: 310. (Col., Coll.)

—— (1936) *Aepus* and *Lipura* at Greenisland: a further note. *Ir. Nat. J.* **6**: 24. (Col., Coll.)

Fjellberg, A. (1986) Revision of the genus *Agrenia* Börner, 1906 (Collembola: Isotomidae). *Entomological Scandinavica* **17**: 93-106. (*A. bidenticulata* (Tullberg) - British Isles)

—— (2007) The Collembola of Fennoscandia and Denmark. Part II: Entomobryomorpha and Symphypleona. *Fauna Entomologica Scandinavica* **42**.

Gisin, H. (1978) Collembola. Pp 254-255. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Goto, H. E. and Lawrence, P. N. (1964) On some new and disputed synonymy in British Collembola. *Proceedings of the Royal Entomological Society of London B* **33**: 83-91.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202.

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215.

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

Healy, B. and McGrath, D. (1998) Marine fauna of County Wexford, Ireland: the fauna of rocky shores and sandy beaches. *Irish Fisheries Investigations New Series* **2**: 1-71.

Heneghan, L. and Bolger, T. (1996) Effect of components of 'acid rain' on the contribution of soil microarthropods to ecosystem function. *Journal of Appled Ecology* **33**: 1329-1344.

—— (1996) Effects of acid rain components on soil microarthropods: a field manipulation. *Pedobiologia* **40**: 413-438.

—— (1998) Soil microarthropod contribution to forest ecosystem processes: the importance of observational scale. *Plant and Soil* **205**: 113-124.

Hopkin, S. P. (2007) *A key to the Collembola (springtails) of Britain and Ireland.* Field Studies Council, AIDGAP Series. **No. 111**: i-vi, 1-245.

Jordana, R. and Baquero, E. (2005) A proposal of characters for taxonomic identification of *Entomobrya* species (Collembola, Entomobryomorpha), with description of a new species. *Abhandlungen und Berichte des Naturkundemuseum S Gorlitz* **76**: 117-134. (*E. nivalis*)

Kelly, M. T. and Curry, J. P. (1985) Studies on the arthropod fauna of a winter wheat crop and its response to the pesticide methiocarb. *Pedobiologia* **28**: 413-421. (Coleoptera named to species)

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kennedy, T. F. (1993) Control of seedling pests in sugar beet using pellet - incorporated insecticides. IGAPA Research Meeting abstract. *Irish Journal of Agricultural Research* **32**: 116-117.

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235.

Lambert, M. R. K. (1972) A vertical succession of Collembola and their relationship to other arthropods in Irish woodland. *Entomologist's mon. Mag.* **108** (1972): 240-247.

Lawrence, P. N. (1961) A survey of the Collembola of the Burren, Co. Clare, Ireland. *Entomologist's Gazette* **12**: 143-164.

—— (1961) Variation in *Hypogastrura* (*H.*) *viatica* (Tullberg, 1872) (Collembola). *Entomologist* **94**: 151-154.

—— (1962) A review of Bagnall's *Hypogastrura* types (Collembola). *Entomologist's Gazette* **13**: 132-151.

—— (1963) New records of Irish Collembola. *Ir. Nat. J.* **14**: 131-136.

—— (1970) The status of *Folsomidiella* Bagnall (Insecta: Collembola). *Entomologist* **103**: 182-184.

—— (1973) The species of *Folsomia* Willem, 1902 (Collembola) described by Bagnall. *Entomologist's Gazette* **24**: 349-361.

—— (1983) Springtails: Order Collembola. Pp 162-165. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

Little, D. and Bolger, T. (1995) The effects of contrasting land uses on soil properties and animal communities in brown earth soils. *Biology and Environment: Proceedings of the Royal Irish Academy* **95**B: 183-193.

Lubbock, J. (1873) *Monograph of the Collembola and Thysanura*. Printed for the Ray Society by J. E. Adlard, London.

McCarthy, F. A. and Bolger, T. (1994) Response of microarthropod communities to transplantation between sites with different pollution imputs. Pp 176-179. *In* Jenkins, A., Ferrier, R. C. and Kirby, C. (eds) *Ecosystem Manipulation Experiments: Scientific Approaches, experimental evidence and relevant results*.

McCormack, S. (2009) Subphylum Hexapoda Class Entognatha. P. 96. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Murphy, D. H. (1960) Some records and redescriptions of British Collembola. Part I *Arthropleona*, with a description of *Micranurida conjuncta* sp.n. *Proceedings of the Royal Entomological Society of London B* **29**: 46-55.

—— (1960) Some records and redescriptions of British Collembola. Part II *Symphypleona*, with a description of *Bourletiella craggi* sp.n. *Proceedings of the Royal Entomological Society of London B* **29**: 57-64.

O'Brien, M., Spillane, C., Meade, C. and Mullins, E. (2008) An insight into the impact of arable farming on Irish biodiversity: a scarcity of studies hinders a rigorous assessment. *Biology and Environment: Proceedings of the Royal Irish Academy* **108**B: 97-108.

O'Connell, T. and Bolger, T. (1997) Fungal fruiting bodies and the structure of fungus-micro-arthropod assemblages. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 249-262.

—— (1997) Stability, ephemerality and dispersal ability: microarthropod assemblages on fungal sporophores. *Biological Journal of the Linnean Society* **62**: 111-131.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Sullivan, G. (1983) The intertidal fauna of Aughinish Island, Shannon, Co Limerick. *Ir. Nat. J.* **21**: 62-69. (*Anurida maritima*)

Purvis, G. (1982) The soil arthropod fauna (Acari and Collembola) of a coastal locality in southeast Ireland. *Journal of Life Sciences of the Royal Dublin Society* **3**: 379-396.

Purvis, G. and Curry, J. P. (1980) Successional changes in the arthropod fauna of a new ley pasture established on previously cultivated arable land. *Journal of Applied Ecology* **17**: 309-321.

—— (1981) The influence of sward management on foliage arthropod communities in a ley grassland. *Journal of Applied Ecology* **18**: 711-725. (Collembola named to species)

Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60.

Shaw, P. and Trewhella, S. (2019) Recent unusual UK Collembola records - Entomobryomorpha and Poduromorpha. *British Journal of Entomology and Natural History* **32**: 217-230.

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106.

Shoebotham, J. W. (1914) Notes on Collembola Part 2: some Irish Collembola and notes on the Genus *Orchesella*. *Annals and Magazine of Natural History* **13**: 59-68.

Sousa, J. P., Bolger, T., da Gama, M. M., Lukkari, T., Ponge, J.-F., Simón, C., Traser, G., Vanbergen, A. J., Brennan, A., Dubs, F., Ivitis, E., Keating, A., Stofer, S. and Watt, A. D. (2006) Changes in Collembola richness and diversity along a gradient of land-use intensity: a pan European study. *Proceedings of the XIth International Colloquium on Apterygota, Rouen, France, 2004. Pedobiologia* **50**: 147-156.

South, A. (1961) The taxonomy of the British species of *Entomobrya* (Collembola). *Transactions of the Royal Entomological Society of London* **113**: 387-416.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Stendall, J. A. S. (1933) The springtail *Folsomia fimetaria* in Co. Down. *Ir. Nat. J.* **4**: 220.

Sterzyńska, M. and Bolger, T. (2004) Collembola of North Bull Island-new records for the Irish coast. *Fragmenta Faunistica* **47**: 47-50.

Sun, X., Chen, J.-X. and Deharveng, L. (2011) Redefinition of the genus *Allonychiurus* Yoshii, 1995 (Collembola, Onychiuridae) with description of a new species from China. *Zookeys* **78**: 27-41.

Walsh, M. I. and Bolger, T. (1990) Effects of diet on the growth and reproduction of some Collembola in laboratory cultures. *Pedobiologia* **34**: 161-171.

—— (1993) Effects of diet on the interactions between *Hypogastrura denticulata* Bagnall and *Onychiurus furcifer* Börner in laboratory cultures. *The European Journal of Soil Biology* **29**: 155-160.

—— (1995) Uptake and elimination of 32 P and 65 Zn by *Collembola* fed on fungi. *Polskie Pismo Entomologiczne* **64**: 413-420.

Womersley, H. (1930) The Collembola of Ireland. *Proceedings of the Royal Irish Academy* **39**B: 160-202. (list of the Irish species with localities and keys)

—— (1930) Notes on some new and rare British Collembola. *Entomologist's mon. Mag.* **66**: 33-41.

Wright, E. P. and Haliday, A. H. (1857) Notes of a visit to Mitchelstown Caves by E. Percival Wright, A.B., M.R.I.A., Director of the Dublin University Museum; Hon. Sec. Dublin University Zoological and Botanical Association. With supplemental notes of the blind fauna of Europe by A. H. Haliday, A.M., M.R.I.A., F.L.S., vice-president of the Dublin University Zoological and Botanical Association. *The Natural History Review (Proceedings of Societies)* **4**: 231-241.



CHAPTER 6. *DERMAPTERA

Anderson, R. (2011) A second Irish record of the ring-legged earwig (*Euborellia annulipes* (Lucas)) (Dermaptera: Carcinophoridae). *Ir. Nat. J.* **31** (2010): 57.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Carpenter, G. H. (1912) Clare Island Survey. 31. Orthoptera. *Proceedings of the Royal Irish Academy* **31**(31): 4pp.

—— (1920) Earwigs, cockroaches and grasshoppers. *Ir. Nat.* **29**: 92.

Cawley, M. (2000) *Forficula lesnei* Finot, 1887, an earwig (Dermaptera: Forficulidae) new to Ireland. *Ir. Nat. J.* **26** (1999): 272-273.

—— (2005) Notes and records on some Irish Orthoptera and Dermaptera. *Bulletin of the Irish Biogeographical Society* **29**: 300-307.

—— (2012) New Irish records for uncommon Orthoptera and Dermaptera. *Bulletin of the Irish Biogeographical Society* **36**: 183-185.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Cotton, D. C. F. (1989) The ecology of Inishmurray. Pp 16-50. *In* Cotton, D. C. F. (ed.) *The future of Inishmurray.* Regional Technical College, Sligo. (Derm. p. 29)

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Donisthorpe, H. St. J. (1903) Orthoptera from South Kerry. *Ir. Nat.* **12**: 138. (Derm., Orthop.)

Good, J. A. (1978) Information sought on earwig predators. *Ir. Nat. J.* **19**: 168.

—— (1978) Association between earwigs *Forficula auricularia* L. and Cow Parsnip *Heracleum sphondylium* L. *Ir. Nat. J.* **19**: 204.

—— (1979) The lesser earwig *Labia minor* L. (Dermaptera: Labiidae), in Ireland. *Ir. Nat. J.* **19**: 448.

—— (1982) Notes on the biogeography and ecology of the common earwig, *Forficula auricularia* (Dermaptera) in Ireland. Part 1: distribution. *Ir. Nat. J.* **20**: 496-497.

—— (1982) Notes on the biogeography and ecology of the common earwig, *Forficula auricularia* (Dermaptera), in Ireland. Part 2: life cycle. *Ir. Nat. J.* **20**: 543-546.

—— (1984) Fungi attacking eggs of the earwig *Forficula auricularia* L. (Dermaptera). *Ir. Nat. J.* **21**: 370.

—— (2015) Effect of soil type on female mate choice and male forceps dimorphism in the earwig *Forficula auricularia* Linnaeus, 1758 (Dermaptera: Forficulidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **39**: 193-202.

Good, J. A. and Reynolds, J. D. (2018) Double dimorphism and cyclolabic male earwigs *Forficula auricularia* (L.) (Dermaptera: Forficulidae) from Foynes Island, Ireland. *Bulletin of the Irish Biogeographical Society* **42**: 159-172.

Halbert, J. N. (1913) Insects on Great Blasket and in West Kerry. *Ir. Nat.* **22**: 62. (Col., Derm.)

Hincks, W. D. (1956) Dermaptera and Orthoptera. *Handbooks for the Identification of British Insects* **1**(5): 1-24.

Lucas, W. J. (1911) British Orthoptera in the Dale Collection. *Entomologist's mon. Mag.* **47**: 135-138.

—— (1912) Notes on earwigs that breed in Britain. *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 21-26.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork.

Nelson, B. (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Nash, R. (1984) Insects imported into Ireland 6. Records of Orthoptera, Dermaptera, Lepidoptera and Coleoptera. *Ir. Nat. J.* **21**: 351-353.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Mahony, E. (1935) Robin and earwigs. *Ir. Nat. J.* **5**: 309.

—— (1950) *Prolabia arachidis* (Yers.), an introduced earwig in Ireland. *Entomologist's mon. Mag.* **86**: 359.

Popham, E. J. (1961) Earwigs in the British Isles. *Entomologist* **94**: 308-310.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

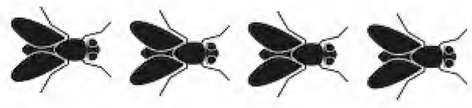
Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106.

Speight, M. C. D. (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Sullivan, D. J. (1943) Survey of Inishtrahull: Part 3. Observations on the habits of the common earwig at Inishtrahull. *Ir. Nat. J.* **8**: 101-107. (Derm., Hym.)



CHAPTER 7. *DIPTERA

Anon. (1857) (*Discomyza incurva*). *Proceedings of the Natural History Society of Dublin* **2**: 70.

—— (1892) (*Bibio pomonae*, Fab.). *Ir. Nat.* **1**: 167.

—— (1895) Dublin Naturalists' Field Club. *Ir. Nat.* **4**: 221-222.

—— (1901) Malarial mosquitoes in Ireland. *Ir. Nat.* **10**: 91.

—— (1903) (*Chromatomyia ilicis*). *Ir. Nat.* **12**: 52.

—— (1909) Three weeks in South Kerry. Diptera, *Ir. Nat.* **12**: 68-69.

—— (1910) (Diptera at Lugnaquilla). *Ir. Nat.* **19**: 225.

—— (1911) Report of Dublin Microscopical Field Club. *Ir. Nat.* **20**: 13. (Diptera)

—— (1911) Report of Dublin Naturalists' Field Club. *Ir. Nat.* **20**: 71 (Diptera)

—— (1926) Harry Long Legs and Daddy long legs. *Ir. Nat. J.* **1**: 116-117.

Anon. (1931) (Plague of flies *Chironomus anthracinus*). *Ir. Nat. J.* **3**: 223.

—— (1938) A crane fly query. *Ir. Nat. J.* **7**: 214.

—— (1974) The 1973 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 33-36. (p. 36 *Molophilus lackschewitzianus* Alex.)

—— (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

—— (1976) The 1975 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **9**: 2-13. (p. 11 *Xylota coeruleiventris* Syrphidae))

—— (1978) The 1977 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 2-20 (Pp 16-17 *Conops vesicularis* L., *Dixa submaculata* Edw.)

—— (2007) Royal Irish Academy. Praeger Fund for Field Natural History. *Ir. Nat. J.* **28** (2006): 335.

—— (2009) Publication of a checklist of Irish Diptera. *Bulletin of the Dipterists Forum* **No. 67** (Spring 2009): 12.

—— (2011) BAP & Conservation UK BAP update. *Bulletin of the Dipterists Forum* **No. 70** (Autumn 2010): 5-6. (*Cheilosia ahenea*)

—— (2011) Meeting reports. 'Invasive insects: implications for plant health, animal health, public health and the environment'. *Antenna* **35**: 192. (mosquitoes)

—— (2019) The second year……. page 1 *in* National Agromyzidae recording scheme newsletter 12; December 2018 10pp. *Bulletin of the Dipterists Forum* **No. 87** (Spring). (*Phytomyza pastinacae* new to Ireland)

Ackland, D. M. (2002) Test keys to British Eudorylii. *Bulletin of the Dipterists Forum* **No. 53** (Spring 2002): pp 2-8 + 25 figures. (Pipunculidae: *Eudorylas fascipes* (fig. 13), *E. zonatus* (fig. 20))

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54.

Ahmed, K. S. D., Volpato, A., Day, M. F., Mulkeen, C. J., O'Hanlon, A., Carey, J., Williams, C., Ruas, S., Moran, J., Rotchés-Ribalta, R., Ó hUallacháin, D., Stout, J. C., Hodge, S., White, B. and Gormally, M. J. (2020) Linear habitats across a range of farming intensities contribute differently to dipteran abundance and diversity. *Insect Conservation and Diversity*.
<https://doi.org/10.1111/icad.12455>

Al-Saffar, Z. Y., Grainger, J. N. R. and Aldrich, J. (1995) Effects of constant and fluctuating temperature on development from egg to adult of *Drosophila melanogaster* (Meigen). *Biology and Environment: Proceedings of the Royal Irish Academy* **95**B: 119-122.

Alcock, N. H. (1899) The natural history of Irish bats. *Ir. Nat.* **8**: 29-36.

Alexander, K. (2008) *Dictenidia bimaculata* (L.) in Northern Ireland. *Cranefly Recording Scheme Newsletter* **16**: 7-8. *Bulletin of the Dipterists Forum* **No. 65** (Spring).

—— (2009) *Terellia tussilaginis* (Fabricius, 1775) (Diptera: Tephritidae), a fruit fly new to Ireland. *Ir. Nat. J.* **30**: 65.

Alexander, K. (2012) Talking rot: deadwood for dipterists, by Keith Alexander - a summary. *Bulletin of the Dipterists Forum* **No. 73** (Spring): 18-19. (Irish woodland)

Alexander, K. N. A. (1993) The status and distribution of *Xylophagus ater* Meigen (Diptera: Xylophagidae) in Ireland. *Ir. Nat. J.* **24**: 316-318.

—— (2002) The invertebrates of living and decaying timber in Britain and Ireland. A provisional annotated checklist. *English Nature Research Reports* **No. 467**. English Nature, Peterborough.

—— (2002) *Rhagoletis alternata* (Fallén) (Diptera: Tephritidae): the rose-hip fly, new to Ireland. *Ir. Nat. J.* **27**: 76.

—— (2011) *Dictenidia bimaculata* (L.) in Northern Ireland. Cranefly News - No. 21 Spring 2011. p. 4. *In Bulletin of the Dipterists Forum* **No. 71** (Spring 2011).

—— (2011) Sun, sea and special insects - hard-rock coasts and their invertebrates. *Antenna* **35**: 21-27. (*Dicranomyia goritiensis*)

—— (2013) Recent Irish records of the Navelwort Leaf-mining Hoverfly (*Cheilosia semifasciata* Becker) (Diptera, Syrphidae). *Ir. Nat. J.* **32**: 150-151.

—— (2020) Recent records of *Fannia aequilineata* Ringdahl (Diptera, Fanniidae) from England, Wales, Scotland and Northern Ireland. *Dipterists Digest* **27**: 164.

—— (2020) Recent records of *Australachalcus melanotrichus* Mik (Diptera, Dolichopodidae) and observations on its habitat associations and range in Britain and Ireland. *Dipterists Digest* **27**: 181-184.

Alexander, K. N. A. and Chandler, P. J. (2009) *Euthyneura myrtilli* Macquart, 1836 (Diptera: Hybotidae), a dance fly new to Ireland. *Ir. Nat. J.* **30**: 55-56.

—— (2010) Twelve flies new to Ireland and one further species confirmed as Irish from six historic desmesnes (Diptera: Mycetophilidae, Sciaridae, Psychodidae, Scatopsidae, Ceratopogonidae, Dolichopodidae). *Ir. Nat. J.* **30** (2009): 112-114.

—— (2011) A notable assemblage of fungus gnats (Diptera, Sciaroidea) from St John's Wood, County Roscommon, Ireland. *Dipterists Digest* **18**: 27-42.

Alexander, K. N. A. and Gibbs, D. J. (2004) Records of Irish big-headed flies (Diptera: Pipunculidae), including a second Irish record for *Jassidophaga setosa* (Verrall). *Ir. Nat. J.* **27**: 402-403.

Alexander, K. N. A., Gibbs, D. J. and Speight, M. C. D. (2009) The Irish *Systenus mallochi* Vaillant reassessed as *Systenus mallochi* MacGowan (Diptera, Dolichopodidae). *Ir. Nat. J.* **29** (2008): 95-96.

Alexander, S. M. D. (1954) The birds of the Blasket Islands with special reference to Great Blasket Island, Inishvickillaun and Illaunboy and some notes on the adjacent mainland. *Bird Study* **1**: 148-168. (*Ornithomyia fringillina sensu lato*)

Allen, A. A. (1958) Larval morphology of different genera of Agromyzidae (Diptera). *Proceedings of the Royal Entomological Society of London A* **33**: 123-135.

—— (1980) *Stilpon nubilus* Coll. (Dipt.: Empididae) new to Kent. *Entomologist's Rec. J. Var.* **92**: 26-27. (Meath)

Anderson, A., Carnus, T., Helden, A. J., Sheridan, H. and Purvis, G. (2013) The influence of conservation field margins in intensively managed grazing land on communities of five arthropod trophic groups. *Insect Conservation and Diversity* **6**: 201-211.

Anderson, R. (1985) *Chalcosyrphus nemorum* (Fabricius) (Diptera: Syrphidae) in Quoile wood, Co Down. *Ir. Nat. J.* **21**: 463.

—— (1987) Rare hoverflies (Diptera: Syrphidae) in south Down, including *Brachypalpoides lenta* (Meigen). *Ir. Nat. J.* **22**: 210.

—— (1987) *Neoascia obliqua* Coe, a hoverfly (Diptera: Syrphidae) new to Ireland. *Ir. Nat. J.* **22**: 211.

—— (1987) Some local woodland hoverflies (Diptera: Syrphidae) including *Parasyrphus lineolus* (Zett.) from the Lagan Valley, Belfast. *Ir. Nat. J.* **22**: 258.

—— (1988) An interesting faunal association including *Anasimyia transfuga* (L.) (Diptera: Syrphidae) at Aughnadarragh Lough, Co Down. *Ir. Nat. J.* **22**: 452.

—— (1988) *Parasyrphus annulatus* (Zetterstedt) (Diptera: Syrphidae) in Belvoir Park, Belfast. *Ir. Nat. J.* **22**: 455.

—— (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

—— (2008) Insect and invertebrate review 2006-2007. *Ir. Nat. J.* **29**: 66-69.

—— (2008) Terrestrial invertebrates. *Biodiversity Ireland* **Issue 1**: 9-11.

—— (2011) *Plea minutissima* Leach (Hemiptera: Pleidae) and *Helophilus trivittatus* (Fab.) (Diptera: Syrphidae) in Co. Down. *Ir. Nat. J.* **31** (2010): 57.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland. (Syrphidae (Hoverflies) and Tabanidae (Horseflies))

Anderson, R. and Nelson, B. (1995) Recent records of *Cheilosia chrysocoma* (Meigen) and *C. grossa* Fallén (Diptera: Syrphidae) in Northern Ireland. *Ir. Nat. J.* **25**: 78-79.

Andersson, H. (1971) The European species of *Limnellia* (Dipt., Ephydridae). *Entomologica Scandinavica* **2**: 53-59.

—— (1984) Family Anthomyzidae. Pp 50-53. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Andrews, H. W. (1908) *Pegomyia univittata* not in Ireland. *Entomologist's Rec. J. Var.* **20**: 187.

—— (1910) (*Chorisops tibialis*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 113.

—— (1914) Notes on some Diptera taken in the South of Ireland. *Ir. Nat.* **23**: 136-143.

—— (1914) (*Limnophora aestuum*). *Proceedings of the South London Entomological and Natural History Society* **1914-15**: 88.

—— (1924) *Agathomyia elegantula* Fall. and other Diptera from North Kent. *Entomologist's mon. Mag.* **60**: 65.

—— (1946) (*Muscina assimilis* and *M. pabulorum*). *Entomologist's Rec. J. Var.* **58**: 49.

Ashe, P. (1986) A larval diagnosis for the subfamily Buchonomyiinae and the genus *Buchonomyia* with a description of the 1st instar larva of *Buchonomyia thienemanni* Fittk. (Diptera, Chironomidae). *Spixiana Supplement* **11**: 143-148.

—— (1986) A checklist of Irish Dixidae (Diptera). *Bulletin of the Irish Biogeographical Society* **9**: 46-50.

Ashe, P. (1987) *Lasiodiamesa sphagnicola*, *Cardiocladius capucinus* and *Orthocladius* (*Eudactylocladius*) *fuscimanus* (Diptera: Chironomidae) new to Ireland. *Ir. Nat. J.* **22**: 194-195.

—— (1987) The families Anisopodidae and Thaumaleidae (Diptera: Nematocera) in Ireland with comments on relevant Haliday manuscripts. *Bulletin of the Irish Biogeographical Society* **10**: 107-123.

—— (1988) *Mycetobia obscura* Mamaev (Diptera: Anisopodidae), a species new to Ireland and a first record for the British Isles. *Bulletin of the Irish Biogeographical Society* **11**: 2-5.

—— (1995) Description of a late-instar larva of *Buchonomyia thienemanni* Fittkau and further data on its ecology with diagnoses for the subfamily Buchonomyiinae and the genus *Buchonomyia* (Diptera: Chironomidae). Pp 425-429. *In* Cranston, P. (ed.) *Chironomids. From genes to ecosystems.* CSIRO, Melbourne.

Ashe, P. and Cranston, P. S. (1990) Family Chironomidae. Pp 113-355. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **2**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Ashe, P., McCarthy, T. K. and Fahy, S. (2000) The supposed arctic relict *Corynocera ambigua* Zetterstedt in Ireland (Diptera: Chironomidae), with a review of its ecology and distribution. *Verh. Internat. Verein. Limnol.* **27**: 267-272.

Ashe, P. and Murray, D. A. (1980) *Nostococladius*, a new subgenus of *Cricotopus* (Diptera: Chironomidae). Pp 105-111. *In* Murray, D. A. (ed.) *Chironomidae: ecology, systematics, cytology & physiology*. Pergamon Press, Oxford.

—— (1983) Observations on and descriptions of the egg- mass and eggs of *Buchonomyia thienemanni* Fitt. (Diptera: Chironomidae). *Memoirs of the American Entomological Society* **34**: 3-13.

Ashe, P. and O'Connor, J. P. (1989) Notes on Irish Trichoceridae (Insecta: Diptera) including two species new to Ireland. *Dipterists Digest* **2**: 31-33.

—— (1990) Further records of Irish Dixidae (Diptera) including *Dixella attica* Pandazis, new to Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 23-28.

—— (1991) *Phytosciara* (*Prosciara*) *producta* Tuomikoski (Diptera: Sciaridae) new to the British Isles. *Dipterists Digest* **8**: 16-17.

—— (1993) *Geranomyia bezzii* Alexander and Leonard (Diptera: Limoniidae), a marine species new to Ireland. *British Journal of Entomology and Natural History* **6**: 45-46.

—— (1993) New records of *Chyromya oppidana* (Scopoli) and *Chyromya flava* (L.) (Dipt., Chyromyidae) from Ireland. *Entomologist's mon. Mag.* **129**: 256.

—— (1994) *Eukiefferiella ancyla* and *Paratanytarsus grimmii* (Diptera: Chironomidae), new to Ireland, with a second record for *Orthocladius* (*Symposiocladius*) *lignicola*. *Ir. Nat. J.* **24**: 364-366.

—— (2000) First record of the cranefly *Dicranomyia* (*Dicranomyia*) *ventralis* (Schummel) (Diptera: Limoniidae) from Ireland. *British Journal of Entomology and Natural History* **13**: 50.

—— (2001) A first record for Ireland of the vulnerable Red Data Book cranefly *Erioptera* (*Erioptera*) *meijerei* Edwards (Diptera, Limoniidae). *Dipterists Digest* **8**: 19-20.

Ashe, P. and O'Connor, J. P. (2001) A first Irish record of the phantom midge *Chaoborus* (*Peusomyia*) *pallidus* (Diptera: Chaoboridae). *Entomologist's Gazette* **52**: 199.

—— (2002) First records of *Clinohelea unimaculata* (Macquart) and *Forcipomyia* (*Panhelea*) *brevicubitus* Goetghebuer (Dipt., Ceratopogonidae) from Ireland. *Entomologist's mon. Mag.* **138**: 133-134.

—— (2005) Re-discovery and the first Irish record of *Arthrocnodax fraxinella* (Meade) (Diptera: Cecidomyiidae) reared from the cauliflower ash gall. *Entomologist's mon. Mag.* **141**: 139-142.

—— (2005) *Erioptera* (*Erioptera*) *griseipennis* Meigen and *Hoplolabis* (*Parilisia*) *vicina* (Tonnoir) (Diptera: Limoniidae), two craneflies new to Ireland. *Entomologist's Gazette* **56**: 271-272.

—— (2009) *A World Catalogue of Chironomidae (Diptera). Part 1. Buchonomyiinae, Chilenomyiinae, Podonominae,Aphroteniinae, Tanypodinae, Usambaromyiinae, Diamesinae, Prodiamesinae and Telmatogetoninae.* The Irish Biogeographical Society in association with The National Museum of Ireland, Dublin. 445pp.

—— (2012) *A World Catalogue of Chironomidae (Diptera). Part 2. Orthocladiinae.* The Irish Biogeographical Society in association with The National Museum of Ireland, Dublin. xvi + 968pp.

—— (2012) Additions and corrections to Part 1 of 'A World Catalogue of Chironomidae (Diptera)'. Proceedings of the 18th International Symposium on Chironomidae. *Fauna norvegica* **31**: 125-136.

Ashe, P., O'Connor, J. P., Alexander, K. N. A., Chandler, P. J. and Oosterbroek, P. (2008) Additions, with some corrections to the records of the craneflies of Ireland (Diptera: Cylindrotomidae, Limoniidae, Pediciidae and Tipulidae). *Bulletin of the Irish Biogeographical Society* **32**: 6-20.

Ashe, P., O'Connor, J. P. and Casey, R. J. (1991) Irish mosquitoes (Diptera: Culicidae): a checklist of the species and their known distribution. *Proceedings of the Royal Irish Academy* **91**B: 21-36.

Ashe, P., O'Connor, J. P. and Chandler, P. J. (2002) New generic, subgeneric and species records of Ceratopogonidae (Diptera) from Ireland. *Dipterists Digest* **9**: 73-74.

—— (2007) *Dasyhelea* (*Dasyhelea*) *saxicola* (Edwards) (Diptera: Ceratopogonidae) new to Ireland and Wales from limestone rockpools with a review of its ecology and distribution. *Entomologist's mon. Mag.* **143**: 113-126.

—— (2012) A revised checklist of the biting midges (Diptera: Ceratopogonidae) of Ireland. *Bulletin of the Irish Biogeographical Society* **36**: 190-231.

—— (2013) Additions and corrections to the checklist of the biting midges (Diptera, Ceratopogonidae) of Ireland. *Dipterists Digest* **20**: 87-90.

—— (2013) A revised checklist of the biting midges (Diptera: Ceratopogonidae) of Ireland: correction. *Bulletin of the Irish Biogeographical Society* **37**: 56-57.

Ashe, P., O'Connor, J. P., Chandler, P. J., Stubbs, A. E. and Vane-Wright, R. I. (2005) The craneflies (Diptera) of Ireland. Part 3. Limoniidae: Dactylolabinae and Limnophilinae. *Bulletin of the Irish Biogeographical Society* **29**: 312-344.

—— (2005) The craneflies (Diptera) of Ireland. Part 4. Cylindrotomidae. *Bulletin of the Irish Biogeographical Society* **29**: 345-350.

Ashe, P., O'Connor, J. P., Chandler, P. J., Stubbs, A. E., Vane-Wright, R. I. and Alexander, K. N. A. (2007) The craneflies (Diptera) of Ireland. Part 5. Tipulidae: *Bulletin of the Irish Biogeographical Society* **31**: 296-357.

—— (2007) The craneflies (Diptera) of Ireland. Part 6. Limoniidae: Chioneinae. *Bulletin of the Irish Biogeographical Society* **31**: 358-408.

Ashe, P., O'Connor, J. P., Chandler, P. J., Stubbs, A. E., Vane-Wright, R. I. and Blackith, R. E. (1991) Craneflies new to Ireland (Diptera: Cylindrotomidae, Limoniidae, Tipulidae). *Bulletin of the Irish Biogeographical Society* **14**: 54-59.

—— (1995) The craneflies (Diptera) of Ireland. Part 1. Limoniidae: Pediciinae. *Bulletin of the Irish Biogeographical Society* **18**: 136-147.

—— (1998) The craneflies (Diptera) of Ireland. Part 2. Limoniidae: Limoniinae. *Bulletin of the Irish Biogeographical Society* **22**: 102-127.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

—— (2000) Larvae of *Eurycnemus crassipes* (Panzer) (Diptera: Chironomidae) ectoparasitic on prepupae/pupae of *Hydropsyche siltalai* Döhler (Trichoptera: Hydropsychidae), with a summary of known chironomid/trichopteran associations. *Spixiana* **23**: 267-274.

—— (2015) A review of the distribution and ecology of *Buchonomyia thienemanni* Fittkau (Diptera: Chironomidae) including a first record for Russia. *European Journal of Environmental Sciences* **5**: 5-11.

Ashe, P., Speight, M. C. D. and de Courcy Williams, M. (1988) A review of the state of taxonomy of the Diptera (Insecta) in Ireland, with a discussion of some implications. Pp 141-153. *In* Moriarty, C. (ed.) *Taxonomy - putting plants and animals in their place.* Royal Irish Academy, Dublin.

Austen, E. E. (1897) On the British species of the Genus *Chrysops* (Family Tabanidae). *Entomologist's mon. Mag.* **33**: 224-228.

—— (1906) *Illustrations of British blood-sucking flies*. British Museum, London.

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10.

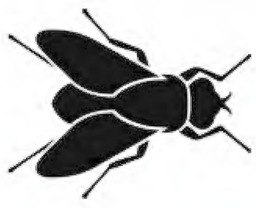
Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248.

Bächli, G. and Rocha Pité, M. T. (1984) Family Drosophilidae. Pp 186-230. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Baechli, G., Vilela, C. R., Escher, S. A. and Saura, A. (2004) The Drosophilidae (Diptera) of Fennoscandia and Denmark. *Fauna Entomologica Scandinavica* **39**.

Bailey, C. S. (1944) Bluebottles attracted by ammonia. *Ir. Nat. J.* **8**: 232.

Baker, R. A. (2011) Parasites of damselflies and dragonflies: a review of recent work. *Journal of the British Dragonfly Society* **25**: 27-40. (*Forcipomyia paludis*)



Baker, R. A. and Bayliss, R. A. (2003) A comment on the life and work of Professor Gregg Wilson (1865-1951) of Queen's College and University, Belfast and the links between professional and amateur naturalists in Ireland in the late nineteenth and early twentieth centuries. *Ir. Nat. J.* **27**: 174-183. (insect lectures, mosquitoes)

Bannon, E. and Purvis, G. (1993) Pests and diseases of agricultural crops. Pp 17-30. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Col., Coll., Dipt., Hem.)

Barendregt, A., Prijs, J. and Velterop, J. H. C. (2014) Slakkendodende vliegen van het genus *Anticheta* in Nederland, met twee soorten nieuw voor de fauna (Diptera: Sciomyzidae). *Nederlandse Faunistische Mededelingen* **42**: 47-54.

Barnes, H. F. (1927) Four British aphid-eating gall-midges. *Entomologist* **60**: 174-180.

—— (1928) British gall midges. II. *Lestodiplosis* Kieffer. *Entomologist's mon. Mag.* **64**: 68-75. (*L. miki* Barnes - Dublin; *L. acanthoidis* Barnes - Armagh/Tyrone)

—— (1940) The gall midges attacking the seed-heads of cocksfoot *Dactylis glomerata* L. *Bulletin of Entomological Research* **3**1: 111-120.

—— (1946) *Gall midges of economic importance. I. Gall midges of root and vegetable crops*. Lockwood, London.

—— (1946) *Gall midges of economic importance. II. Gall midges of fodder crops*. Lockwood, London.

—— (1948) *Gall midges of economic importance. III. Gall midges of fruit.* Lockwood, London.

—— (1948) *Gall midges of economic importance. IV Gall midges of ornamental shrubs and trees*. Lockwood, London.

—— (1953) Investigations into the gall midges of Chrysanthemum flowers, 1951-53. *Entomologist* **86**: 292-297.

Barrington, R. M. (1896) Wasps catching flies on cattle. *Ir. Nat.* **5**: 272. (Dipt., Hym.)

Basden, E. B. (1952) Some Drosophilidae of the British Isles. *Entomologist's mon. Mag.* **88**: 200-201.

—— (1953) A *Drosophila* survey of Ireland. *Ir. Nat. J.* **11**: 80-81.

Bass, J. (1990) Some records of black flies (Diptera: Simuliidae) from Co Kerry. *Ir. Nat. J.* **23**: 305-309.

—— (1998) Last-instar larvae and pupae of the Simuliidae of Britain and Ireland. A key with brief ecological notes. *Scientific Publications of the Freshwater Biological Association* **55**: 1-102.

Beaumont, H. E. (2000) 1999 Annual exhibition. *British Journal of Entomology and Natural History* **13**: 156-160. (Elliott, B.: *Agonopterix astrantiae* (Hein.) from the Burren, Co. Clare)

Behan, M. and Ryan, M. F. (1977) The sensory receptors of the ovipositors of the carrot fly *Psila rosae* (F.) and the cabbage root fly *Erioischia brassicae* (B.). *Bulletin of Entomological Research* **67**: 383-389.

Beirne, B. P. (1943) Some Diptera from Ireland. *Ir. Nat. J.* **8**: 55-56.

—— (1943) Further records for Irish Diptera. *Ir. Nat. J.* **8**: 98-99.

—— (1949) Diptera from Ireland. *Ir. Nat. J.* **9**: 277.

—— (1951) Some records of Diptera collected in Ireland. *Ir. Nat. J.* **9**: 198.

Belshaw, R. (1993) Tachinid flies. Diptera: Tachinidae. *Handbooks for the Identification of British Insects* **10**(4ai): 1-169.

Berg, C. W. (1977) Some Diptera collected in the Isles off Co. Kerry and the mainland of Kerry and Cork, Eire. *Entomologist's mon. Mag.* **112** (1976): 75-76.

Berté, S. B. and Wallace, I. D. (1987) Larvae of *Coniosternum minuta* (Malloch) and *C. obscura* Fallén (Dipt., Scathophagidae) feeding on eggs of Trichoptera in Canada and Ireland. *Entomologist's mon. Mag.* **123**: 181-184.

Billups, T. R. (1894) Rare British Diptera in 1893. *Entomologist* **27**: 136-137.

Bilyj, B. (1988) A taxonomic review of *Guttipelopia* (Diptera: Chironomidae). *Entomological Scandinavica* **19**: 1-26. (*G. guttipennis* (v. d. Wulp))

Bistline-East, A., Burke, D., Williams, C. D. and Gormally, M. J. (2020) Habitat requirements of *Tetanocera elata* (Diptera: Sciomyzidae): case study of a dry meadow in western Ireland. *Agricultural and Forest Entomology* **22**: 250-262.

Blackith, R. (2020) Flesh Flies (Sarcophagidae) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/277>

Blackith, R. and Blackith, R. (1984) Larval aggression in Irish flesh-flies (Diptera: Sarcophagidae). *Ir. Nat. J.* **21**: 255-257.

—— (1986) A specimen of *Sarcophaga ebrachiata* Pandellé (Diptera: Sarcophagidae) with dark genitalia. *Ir. Nat. J.* **22**: 79.

—— (1987) Studies on the Murrough, Co. Wicklow, Ireland. 2: the flesh-flies (Diptera: Sarcophaginae). *Bulletin of the Irish Biogeographical Society* **10**: 35-41.

—— (1988) Amendments to the Irish list of cyclorrhaphous Diptera from the Clare Island Survey. *Ir. Nat. J.* **22**: 502.

—— (1990) Aspects of overwintering activity in Diptera. *Dipterists Digest* **3**: 33-37.

—— (1993) Diptera (Insecta) attracted to the Dragon's Mouth Lily (*Dracunculus vulgaris* Schott) in Ireland. *Bulletin of the Irish Biogeographical Society* **16**: 2-8.

Blackith, R. E. and Blackith, R. M. (1989) Diptera reared from decaying potatoes in Ireland. *Ir. Nat. J.* **23**: 71-72.

—— (1990) Insect infestations of small corpses. *Journal of Natural History* **24**: 699-709. (Dipt., Hym., Lep.)

Blackith, R. E., Blackith, R. M., and Speight, M. C. D. (1989) *Chrysotus blepharosceles*, *Hypophyllus crinipes* and *Thrypticus bellus*, insects new to Ireland and *Argyra elongata*, presence in Ireland confirmed (Diptera: Dolichopodidae). *Ir. Nat. J.* **23**: 106-108.

—— (1990) *Fannia umbrosa*, *Phaonia cincta*, *Chirosia parvicornis*, *Eustalomyia festiva* and *Protophormia terraenovae*, flies (Diptera: Cyclorrhapha) new to Ireland. *Ir. Nat. J.* **23**: 205-208.

Blackith, R. E., Blackith, R. M., Speight, M. C. D. and de Courcy Williams, M. (1991) A first list of Diptera from the Murrough, Co. Wicklow, Ireland, including 663 species and 140 breeding records. *Bulletin of the Irish Biogeographical Society* **14**: 185-253.

Blackith, R. M. and Blackith, R. E. (1991) A bizarre specimen of *Pseudonupedia intersecta* (Meigen) (Diptera: Anthomyiidae). *Ir. Nat. J.* **23**: 424.



Blackith, R. M. and Blackith, R. E. (1991) *Napomyza lateralis*, *Phytomyza anemones*, *Calamancosis aprica*, *Rhegmoclema coxendix*, *Blondelia nigripes*, *Macquartia grisea*, *Medina luctuosa* and *Voria ruralis*, flies (Diptera) new to Ireland. *Ir. Nat. J.* **23**: 504-505.

—— (1991) Calypterate flies (Diptera: Anthomyiidae and Fanniidae) new to Ireland (*Hydrophoria caudata*, *Lasiomma meadi*, *L. anthomyinum*, *Pegohylemyia phrenione*, *Pegomya geniculata*, *Phorbia securis*, *Fannia norvegica* and *F. melania*). *Bulletin of the Irish Biogeographical Society* **14**: 124-128.

Blackith, R. M., Blackith, R. E. and O'Connor, J. P. (1994) A check-list of Irish flesh-flies (Diptera: Sarcophagidae: Sarcophagini) and their known distribution. *Ir. Nat. J.* **24**: 427-434.

Blackith, R. M., Blackith, R. E. and Speight, M. C. D. (1990) *Syntormon luteicornis*: a species new to the British Isles (Dolichopodidae). *Dipterists Digest* **7**: 24-27.

Blackshaw, R. P. (1983) The annual leatherjacket survey in Northern Ireland 1965-82, and some factors affecting populations. *Plant Pathology* **32**: 345-349.

—— (1983) Some factors influencing variability in water-trap catches of *Tipula* spp. (Diptera: Tipulidae). *Bulletin of Entomological Research* **73**: 693-699.

—— (1984) The impacts of low numbers of leatherjacket on grass yield. *Grass and Forage Science* **39**: 339-343.

—— (1984) Frequency of spring barley damage by leatherjackets in Northern Ireland. *Proceedings of the British Crop Protection Conference* pp 15-18.

—— (1985) A preliminary comparison of some management options for reducing grass losses caused by leatherjackets in Northern Ireland. *Annals of Applied Biology* **107**: 279-285.

Blackshaw, R. P. and Moore, J. P. (1984) Morphological determination of leatherjacket (*Tipula paludosa*) instars (Diptera: Tipulidae). *Record of Agricultural Research in Northern Ireland* **32**: 87-89.

Blackshaw, R. P. and Perry, J. N. (1994) Predicting leatherjacket population frequencies in Northern Ireland. *Annals of Applied Biology* **124**: 213-219.

Blair, K. G. (1946) *Melanostoma mellinum* L. (Dipt., Syrphidae) dead on grasses. *Entomologist's mon. Mag.* **82**: 223.

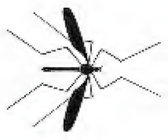
Bland, K. P. (2011) Two new species of Agromyzidae (Diptera) mining the leaves of *Antennaria dioica* in the Scottish Highlands and Northern Ireland. *British Journal of Entomology and Natural History* **24**: 121-126.

Bolger, T. (1997) George Herbert Carpenter. Pp 1-3. *In* Bolger, T. (ed.) *Proceedings of IX International Colloquium on Apterygota, Dublin 1996. Pedobiologia* **41**: 1-224.

Bond, K. G. M. (1988) *Cinochira atra* Zetterstedt (Diptera: Tachinidae) new to Ireland. *Ir. Nat. J.* **22**: 454.

Bond, K. G. M., Barnes, D. K. A. and Sleeman, D. P. (2003) *Scatopse lapponica* Duda (Diptera: Scatopsidae) new to Ireland. *Ir. Nat. J.* **27**: 210.

Bond, K. G. M., O'Connor, J. P. and Ashe, P. (1988) *Limnophyes habilis* and *Metriocnemus atratulus* (Diptera): terrestrial chironomids new to Ireland. *Ir. Nat. J.* **22**: 444-445.



Bonelli, S., Witek, M., Canterino, S., Sielezniew, M., Stankiewicz-Fiedurek, A., Tartally, A., Balletto, E. and Schönrogge, K. (2011) Distribution, host specificity, and the potential for cryptic speciation in hoverfly *Microdon myrmicae* (Diptera: Syrphidae), a social parasite of *Myrmica* ants. *Ecological Entomology* **36**: 135-143.

Boorman, J. (1986) British *Culicoides* (Diptera: Ceratopogonidae): notes on distribution and biology. *Entomologist's Gazette* **37**: 253-266.

Borkent, A. and Bissett, B. (1990) A revision of the Holarctic species of *Serromyia* Meigen (Diptera: Ceratopogonidae). *Systematic Entomology* **15**: 153-217. (*S. femorata* (Meigen))

Boumans, L. (2005) *Zabrachia minutissima* alsnog in Nederland gevonden (Diptera: Stratiomyidae). *Entomologische Berichten* **65**: 132-134.

Bourke, D., Stanley, D., O'Rourke, E., Thompson, R., Carnus, T., Dauber, J., Emmerson, M., Whelan, P., Hecq, F., Flynn, E., Dolan, L. and Stout, J. (2014) Response of farmland biodiversity to the introduction of bioenergy crops: effects of local factors and surrounding landscape context. *GCB Bioenergy* **6**: 275-289.

Boyle, K. and Whelan, J. (1990) Changes in the diet of the badger *Meles meles* L. from autumn to winter. *Ir. Nat. J.* **23**: 199-202.

Bracken, J., Norton, M. and Phillips, H. (1991) A progress report on the rehabilitation of the Kilmastulla River, Co. Tipperary (1986-1988). Pp 115-134. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Bracken, J. J. and Murray, D. A. (1973) Insect emergence data from four small lakes in the South and Southwest of Ireland. *Irish Fisheries Investigations Series A* **No. 11**.

Bratt, A. D., Knutson, L. V., Foote, B. A. and Berg, C. O. (1969) Biology of *Pherbellia* (Diptera, Sciomyzidae). *Cornell University Agricultural Experiment Station Memoir* **404**: 246 pp. Ithaca, New York.

Breen, J. A. G. (1977) A note on the species of *Microdon* (Diptera, Syrphidae) in Ireland. *Entomologist's Gazette* **28**: 243-244.

Brindle, A. (1976) Northern records of some stratiomyid flies. *Entomologist's Rec. J. Var.* **88**: 256-259.

Brodin, Y. and Andersson, M. H. (2009) The marine splash midge *Telmatogon japonicus* (Diptera; Chironomidae) - extreme and alien? *Biological Invasions* **11**: 1311-1317.

Brown, B. V. (1987) Revision of the *Gymnophora* (Diptera: Phoridae) of the Holarctic Region: classification, reconstructed phylogeny and geographic history. *Systematic Entomology* **12**: 271-304. (*G. arcuata*)

Brown, N. E. and Garbary, D. J. (2010) *Halocladius variabilis* (Diptera: Chironomidae) in Scotland. *British Journal of Entomology and Natural History* **23**: 229-234.

Brunnetti, E. (1889) List of British Stratiomyidae, with analytical tables and notes. *Entomologist* **22**: 81-86, 130-134.

Buck, M. and Disney, R. H. (2001) Revision of the *Megaselia giraudii* and *M. densior* species complexes of Europe, including ecological notes. *Beiträge zur Entomologie* **51**: 73-154.

Byrne, R. A. and Reynolds, J. D. (1982) Preliminary notes on a doline in Lough Gealain, the Burren, County Clare. *Ir. Nat. J.* **20**: 375-377.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2008) A new record of the blackfly *Prosimulium latimucro* Enderlein (Diptera: Simuliidae) in an upland lake outlet stream in Co. Leitrim, Ireland. *Bulletin of the Irish Biogeographical Society* **32**: 3-5.

—— (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Car, M. and Lechthaler, W. (2005) Initial practical experience with the digital key to the larvae and pupae of Simuliidae from central and western Europe. *British Simuliid Group Bulletin* **23**: 43.

Carey, J. G. J., Brien, S., Williams, C. D. and Gormally, M. J. (2017) Indicators of Diptera diversity in wet grassland habitats are influenced by environmental variability, scale of observation, and habitat type. *Ecological Indicators* **82**: 495-504.

Carey, J. G. J. and Gormally, M. J. (2017) A first record of *Dorylomorpha anderssoni* Albrecht, a species of big-headed fly (Diptera: Pipunculidae) new to Ireland. *Ir. Nat. J.* **35**: 128-129.

Carey, J. G. J., LeRoy, M., Williams, C. D. and Gormally, M. J. (2015) Observations concerning the sampling of Sciomyzidae (Diptera) in High Nature Value wet grassland habitats: caveats to consider. *Insect Conservation and Diversity* **8**: 573-577.

Carpenter, G. H. (1894) *Clunio marinus*, Haliday: a marine chironomid. *Entomologist's mon. Mag.* **30**: 129.

—— (1894) (*Chrysomela polita*, *Tipula dispar*: Woodenbridge). *Ir. Nat.* **3**: 258.

—— (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895, Diptera. *Ir. Nat.* **4**: 263.

—— (1896) (*Molophilus ater*). *Ir. Nat.* **5**: 137.

—— (1899) (Diptera). *Ir. Nat.* **8**: 64.

—— (1901) The puparium of the Grouse-fly *Ornithomyia avicularia*. *Ir. Nat.* **10**: 221-225, 8 figs.

—— (1902) Diptera. Pp 197-198. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1902) (*Trichocera* eaten by bats). *Ir. Nat.* **11**: 103.

—— (1903) (*Chromatomyia ilicis*). *Ir. Nat.* **12**: 52.

—— (1905) (*Hypoderma bovis*). *Ir. Nat.* **14**: 257.

—— (1905) (*Pegomyia betae* eggs). *Ir. Nat.* **14**: 84.

—— (1908) Some Irish experiments on warble-flies. *Ir. Nat.* **17**: 245.

—— (1908) Diptera. Pp 156-159. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1911) (*Oedemagena tarandi*). *Ir. Nat.* **20**: 13, 71.

—— (1911) (*Scaptomyza flaveola* puparium). *Ir. Nat.* **20**: 132.

—— (1911) Notes on the Oestridae. 1. The ox warble-flies. *Proceedings & Transactions of the 1st International Congress of Entomology.* (Brussels) **2**: 289-294.

Carpenter, G. H. (1914) (*Hypoderma lineatum* larva). *Ir. Nat.* **23**: 252.
—— (1915) (*Braula caeca*). *Ir. Nat.* **24**: 105.
—— (1922) Further observations on the life-history of warble-flies. *Ir. Nat.* **31**: 77-79.
Carpenter, G. H. and Hewitt, T. R. (1914) Some new observations on the life history of warble-flies. *Ir. Nat.* **23**: 214-221.
—— (1914) (*Hypoderma lineatum* larva). *Ir. Nat.* **23**: 252.
Carter, A. E. J. (1908) Two new British Diptera: *Pegomyia esuriens*, Mg., and *P. univittata*, v. Ros. *Entomologist's mon. Mag.* **44**: 128-129.
—— (1908) (Current notes). *Entomologist's Rec. J. Var.* **20**: 147.
—— (1920) *Sphecolyma inanis*, Flu. *Entomologist* **53**: 238.
Carter, C. E. (1975) Emergence periods of the main species of Chironomidae (Diptera) of Lough Neagh. *Ir. Nat. J.* **18**: 245-246.
—— (1976) A population study of the Chironomidae (Diptera) of Lough Neagh. *Oikos* **27**: 346-354.
—— (1977) The recent history of the chironomid fauna of Lough Neagh, from the analysis of remains in sediment cores. *Freshwater Biology* **7**: 415-424.
—— (1978) The fauna of the muddy sediments of Lough Neagh, with particular reference to eutrophication. *Freshwater Biology* **8**: 547-559.
—— (1980) The population structure of *Procladius crassinervis* (Zett). in Lough Neagh, Northern Ireland. *Acta Universitatis Carolinae - Biologica* **1978**: 27-33.
—— (1980) The life cycle of *Chironomus anthracinus* in Lough Neagh. *Holarctic Ecology* **3**: 214-217.
—— (1980) The methods of summarizing survey data from lakes, illustrated by reference to Lough Neagh, Northern Ireland. Pp 216-224. *In* Murray, D. A. (ed.) *Chironomidae: ecology, systematics, cytology and physiology.* Pergammon, Oxford.
Carter, C. E. and Murphy, P. M. (1997) A summer survey of the Chironomidae (Diptera) at selected littoral sites in Lough Neagh, Northern Ireland. *Ir. Nat. J.* **25**: 404-409.
Carter, C. E. and Wood, R. B. (1987) Chironomid distribution in lake sediments and past water quality. Pp 111-122. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin.
Černý, M. (2005) Additional notes on the fauna of Agromyzidae (Diptera) in Switzerland. *Revue Suisse de Zoologie* **112**: 771-805.
Cerretti, P., Badano, D., Gisondi, S., Giudice, G. L. and Pape, T. (2020) The world woodlouse flies (Diptera, Rhinophoridae). *Zookeys* **903**: 1-130.
Chandler, P. (1988) Thirteen species of *Mycetophila* Meigen (Diptera: Mycetophilidae) new to the British list. *British Journal of Entomology and Natural History* **1**: 139-145.
—— (1989) *Campsicnemus dasycnemus* (Loew) (Diptera: Dolichopodidae): first record for the British Isles from Ireland. *Ir. Nat. J.* **23**: 17-19.
—— (1989) *Odinia boletina* (Zetterstedt) (Diptera: Odiniidae), a second Irish record and a British record of *O. xanthocera* Collin. *Ir. Nat. J.* **22**: 26-27.
—— (1989) Chyromyidae (Diptera) in Ireland. *Ir. Nat. J.* **22**: 30-31.
—— (1990) Some biological notes on British lesser dung flies (Diptera, Sphaeroceridae), with a list of species known to be attracted to fungi. *British Journal of Entomology and Natural History* **3**: 55-61.

Chandler, P. (1991) New species and additions to the British list of the fungus gnat genera *Zygomyia* Winnertz and *Sceptonia* Winnertz (Diptera, Mycetophilidae). *British Journal of Entomology and Natural History* **4**: 143-155.

—— (1992) New records and nine additions to the British list of the fungus gnats of the smaller families and sub-families (Diptera: Mycetophiloidea). *British Journal of Entomology and Natural History* **5**: 107-126.

—— (1993) The Holarctic species of the *Mycetophila fungorum* (De Geer) group (Diptera: Mycetophilidae). *British Journal of Entomology and Natural History* **6**: 5-11. (British Isles)

—— (1994) Four species of *Anatella* Winnertz (Diptera, Mycetophilidae) new to the British Isles. *Dipterists Digest* **1**: 9-12.

—— (ed.) (1998) Checklists of insects of the British Isles (New Series). Part 1: Diptera (Incorporating a List of Irish Diptera). *Handbooks for the Identification of British Insects* **12**(1) i-xx + 1-234.

—— (2008) The British Isles Diptera List has reached 7000 - or has it? *Bulletin of the Dipterists Forum* **No. 66**: 6-7.

—— (2009) The collection and diaries of Henry William Andrews. *Dipterists Digest* **16**: 151-182.

—— (2010) Progress on distribution maps of fungus gnats of the British Isles. Fungus gnats recording scheme. Newsletter 4. Spring 2010. Pp 1-7. *In Bulletin of the Dipterists Forum* **No. 69** (Spring 2010).

—— (2011) Diptera species recorded from Ireland but not from Britain - has the British list now reached 7000? *Bulletin of the Dipterists Forum* **No. 71** (Spring 2011): 10-11.

—— (2016) A new recording scheme. Flat-footed Fly Recording Scheme Newsletter 1 Autumn 2016, pp 1-10. *Bulletin of the Dipterists Forum* **No. 81** (Spring)

—— (2018) An update on *Drosophila suzukii* - Spotted Wing Drosophila almost ubiquitous in the south and still spreading north. *Bulletin of the Dipterists Forum* **No. 86** (Autumn). 4pp.

Chandler, P., O'Connor, J. P. and Ashe, P. (1996) Notes on the Irish Sciaridae (Diptera), including five species new to Ireland. *Ir. Nat. J.* **25**: 258-259.

Chandler, P., O'Connor, J. P., Nash, R. and Ackland, M. (2006) The Irish Anthomyiidae (Diptera). *Dipterists Digest* **12** (2005): 107-127.

Chandler, P. and Perry, I. (2010) More fungus gnats (Diptera, Mycetophilidae) new to Britain. *Dipterists Digest* **17**: 180-184.

Chandler, P. J. (1971) *Tetanocera freyi* (Stackelberg), (Dipt., Sciomyzidae), in Ireland, and notes on *T. phyllophora* Melander. *Entomologist* **104**: 134-136.

—— (1972) The distribution of snail-killing flies (Diptera: Sciomyzidae) in Ireland. *Proceedings and Transactions of the British Entomological and Natural History Society* **5**: 1-21.

—— (1973) Some Diptera and other insects associated with decaying elms (*Ulmus procera* Salisbury) at Bromley, Kent, with some additional observations on these and related species. *Entomologist's Gazette* **24**: 329-346.

Chandler, P. J. (1974) Additions and corrections to the British list of Platypezidae (Diptera), incorporating a revision of the Palaearctic species of *Callomyia* Meigen. *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 1-32.

—— (1974) Dung flies and their allies in Ireland. (Diptera, Scatophagidae). *Ir. Nat. J.* **18**: 109-114.

—— (1975) An account of the Irish species of two-winged flies (Diptera) belonging to the families of larger Brachycera (Tabanoidea and Asiloidea). *Proceedings of the Royal Irish Academy* **75**B: 81-110.

—— (1975) Observations on plant associations of the Psilidae (Diptera). *Entomologist's Rec. J. Var.* **87**: 13-17.

—— (1976) A preliminary list of the fungus-gnats (Diptera, Mycetophilidae) of Ireland. *Proceedings of the Royal Irish Academy* **76**B: 87-110.

—— (1976) The Irish species of flat-footed flies (Diptera: Platypezidae). *Ir. Nat. J.* **18**: 289-293.

—— (1977) Studies of some fungus gnats (Diptera Mycetophilidae) including nine additions to the British List. *Systematic Entomology* **2**: 67-93.

—— (1977) Some fungus gnats of the Tribe Exechiini (Diptera, Mycetophilidae) new to the British Isles. *Proceedings and Transactions of the British Entomological and Natural History Society* **10**: 71-85.

—— (1977) New records of Irish fungus gnats (Diptera: Mycetophilidae). *Ir. Nat. J.* **19**: 12-16.

—— (1978) Irish fungus gnats (Diptera: Mycetophilidae) additions and corrections. *Ir. Nat. J.* **19**: 227-230.

—— (1978) Irish Clusiidae and a first record of the family Acartophthalmidae (Diptera) for Ireland. *Ir. Nat. J.* **19**: 263-264.

—— (1978) Notes on the Holarctic species of *Pseudexechia* Tuomikoski (Diptera: Mycetophilidae), with the description of a new British species. *Entomologist's Rec. J. Var.* **90**: 44-51.

—— (1978) A revision of the British Asteiidae (Diptera) including two additions to the British list. *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 23-34.

—— (1978) The Irish fauna of Empididae (Diptera Brachycera). *Proceedings of the Royal Irish Academy* **78**B: 145-169.

—— (1978) Notes on British fungus gnats of the subfamilies Ditomyiinae, Bolitophilinae, Diadocidiinae, Manotinae and Keroplatinae (Dipt., Mycetophilidae). *Entomologist's mon. Mag.* **113** (1977): 31-44.

—— (1980) The European and Eastern Nearctic fungus-gnats in the Genus *Ectrepesthoneura* (Mycetophilidae). *Systematic Entomology* **5**: 27-41.

—— (1981) The European and North American species of *Epicypta* Winnertz (Diptera: Mycetophilidae). *Entomological Scandinavica* **12**: 199-212.

—— (1982) Two fungus associated flies new to Ireland (Diptera: Acartophthalmidae and Platypezidae). *Ir. Nat. J.* **20**: 479.

—— (1982) Some Diptera of the Killarney area May 1981, including five species new to Ireland. *Ir. Nat. J.* **20**: 555-558.

Chandler, P. J. (1986) Flies new to Ireland from Charleville Woods, County Offaly. *Ir. Nat. J.* **22**: 114-115.

—— (1986) The Irish lance flies (Diptera: Lonchaeidae) - a preliminary account. *Ir. Nat. J.* **22**: 147-149.

—— (1986) The British species of *Diastata* Meigen and *Campichoeta* Macquart (Diptera: Drosophiloidea). *Proceedings and Transactions of the British Entomological and Natural History Society* **19**: 9-16. **20**: 74.

—— (1987) The families Diastatidae and Campichoetidae (Diptera, Drosophiloidea) with a revision of Palaearctic and Nepalese species of *Diastata* Meigen. *Entomological Scandinavica* **18**: 1-50.

—— (1987) The British species of *Stegana* Meigen (Diptera: Drosophilidae) - deletion of *S. furta* (Linnaeus) and addition of four species of the *coleoptrata* (Scopoli) group. *Entomologist's Rec. J. Var.* **99**: 115-123.

—— (1987) The presence of *Paroxyna absinthii* (Fabricius) in Ireland (Diptera: Tephritidae). *Ir. Nat. J.* **22**: 212.

—— (1987) Notes on British fungus gnats of the smaller families and sub-families (Diptera, Mycetophilidae). *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 105-118.

—— (1987) New data on Irish fungus gnats (Diptera: Mycetophiloidea) including 51 species new to the Irish list. *Bulletin of the Irish Biogeographical Society* **10**: 2-27.

—— (1991) Family Opetiidae. Pp 204-205. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera.* **7**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1991) Family Platypezidae. Pp 205-21. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **7**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1992) A review of the British *Phronia* Winnertz and *Trichonta* Winnertz (Dipt., Mycetophilidae). *Entomologist's mon. Mag.* **128**: 237-254.

—— (1993) 1992 Annual exhibition. Diptera. *British Journal of Entomology and Natural History* **6**: 70-73. (Alexander, K. N. A. and Foster, A. P.: Syrphidae from Northern Ireland)

—— (1998) The British species of *Dasiops* Rondani, 1856 (Diptera, Lonchaeidae). *Dipterists Digest* **5**: 34-43. (*D. mucronatus*)

—— (1998) Notes on Scatopsidae (Diptera), including *Pharsoreichertella simplicinervis* (Duda, 1928) new to Britain. *Dipterists Digest* **5**: 83-88.

—— (1998) Mosquitoes (Diptera, Culicidae) in Scotland. *Dipterists Digest* **5**: 89-92. (*Culiseta litorea* (Shute))

—— (1999) The British species of *Anapausis* Enderlein (Diptera, Scatopsidae). *Dipterists Digest* **6**: 1-21.

—— (1999) *Micropygus vagans* Parent (Diptera: Dolichopodidae), a New Zealand fly in the British Isles. *British Journal of Entomology and Natural History* **12**: 215-220.

—— (1999) *Siphona hokkaidensis* Mesnil, 1957 (Diptera, Tachinidae), new to Britain. *Dipterists Digest* **6**: 116-117. (Ireland mentioned)

—— (2000) *Micropygus vagans* Parent (Diptera: Dolichopodidae) still resident in Ireland. *British Journal of Entomology and Natural History* **13**: 145.

Chandler, P. J. (2000) The Scottish moth flies (Diptera, Psychodidae). *Dipterists Digest* **7**: 71-78. (Irish Haliday specimens of *Psychoda sexpunctata* corrected to *Tinearia alternata*)

—— (2001) The flat-footed flies (Diptera: Opetiidae and Platypezidae) of Europe. *Fauna Entomologica Scandinavica* **36**.

—— (2001) Fungus gnats (Diptera: Sciaroidea) new to Britain. *British Journal of Entomology and Natural History* **13**: 215-243. (*Mycetophila stricklandi* (Laffoon))

—— (2002) Corrections and changes to the Diptera Checklist (8) - Editor. *Dipterists Digest* **9**: 150-152.

—— (ed.) (2003) 2002 Annual Exhibition. Diptera. *British Journal of Entomology and Natural History* **16**: 177-181. (Parker, M.: *Microdon mutabilis*, *Paragus constrictus*)

—— (2004) An update of the Irish Diptera List - Editor. *Dipterists Digest* **10**: 135-146.

—— (2004) Changes to the Irish Diptera List (2) - Editor. *Dipterists Digest* **11**: 122.

—— (2005) Changes to the Irish Diptera List (3) - Editor. *Dipterists Digest* **12**: 77-78.

—— (2006) Changes to the Irish Diptera list (4) - Editor. *Dipterists Digest* **12** (2005): 132-133.

—— (2006) Changes to the Irish Diptera list (5) - Editor. *Dipterists Digest* **13**: 18-19.

—— (2006) Changes to the Irish Diptera list (6) - Editor. *Dipterists Digest* **13**: 112.

—— (2006) Additions and changes to the British fauna of fungus gnats (Diptera: Mycetophilidae). *British Journal of Entomology and Natural History* **19**: 77-89. (*Mycetophila subsigillata*)

—— (2007) Changes to the Irish Diptera list (7) - Editor. *Dipterists Digest* **14**: 31.

—— (2007) 2006 Annual Exhibition. Diptera. *British Journal of Entomology and Natural History* **20**: 174-179. (Alexander, K. N. A.: *Dictenidia bimaculata*, *Achalcus melanotrichus*, *Systenus mallochi*, *S. pallipes*, *Hirtodrosophila confusa*)

—— (2008) Changes to the Irish Diptera list (8) - Editor. *Dipterists Digest* **14** (2007): 92-93.

—— (2008) Changes to the Irish Diptera list (9) - Editor. *Dipterists Digest* **15**: 19.

—— (2009) Changes to the Irish Diptera List (10) - Editor. *Dipterists Digest* **15**(2008): inside back cover.

—— (2009) Changes to the Irish Diptera List (11) - Editor. *Dipterists Digest* **16**: 81.

—— (2009) Changes to the Irish Diptera List (12) - Editor. *Dipterists Digest* **16**: 102.

—— (2010) Changes to the Irish Diptera List (12) (sic) - Editor. *Dipterists Digest* **17**: 59. (this should read 13)

—— (2010) Changes to the Irish Diptera List (14) - Editor. *Dipterists Digest* **17**: 139.

—— (2011) Changes to the Irish Diptera List (15) - Editor. *Dipterists Digest* **18**: 94.

—— (2011) Changes to the Irish Diptera List (16) - Editor. *Dipterists Digest* **18**: inside back cover, no pagination given.

—— (2012) Changes to the Irish Diptera List (17). *Dipterists Digest* **19**: 76.

—— (2012) Changes to the Irish Diptera List (18). *Dipterists Digest* **19**: 160.

—— (2013) Changes to the Irish Diptera List (19). *Dipterists Digest* **20**: 98-100.

—— (2013) Changes to the Irish Diptera List (20). *Dipterists Digest* **20**: 180.

—— (2013) Diptera. *British Journal of Entomology and Natural History* **26**: 38. (*Hermetia illucens*, larvae in Irish compost bin)

Chandler, P. J. (2014) Dr John Henry Wood and Colonel John William Yerbury - their different lives as dipterists. *Dipterists Digest* **21 Supplement**: 1-118. (includes important information on Ireland)

—— (2015) Corrections to: Chandler, P. J. 2015. Dr John Henry Wood and Colonel John William Yerbury - their different lives as Dipterists. *Dipterists Digest* (Second Series) **21** (2014) **Supplement**, 1-118. *Dipterists Digest* **22**: 210-211.

—— (2015) Gnats new to Britain in 2014. Fungus Gnats Recording Scheme Newsletter 8 Spring 2015, pp 2-5. *Bulletin of the Dipterists Forum* **No. 79** (Spring). (*Mycetophila stylata* distribution map)

—— (2015) Changes to the Irish Diptera List (21). *Dipterists Digest* **22**: 67-68.

—— (2015) Changes to the Irish Diptera List (22). *Dipterists Digest* **22**: 212.

—— (2016) Changes to the Irish Diptera List (23). *Dipterists Digest* **23**: 152.

—— (2017) Changes to the Irish Diptera List (24). *Dipterists Digest* **24**: 52.

—— (2018) Changes to the Irish Diptera List (25). *Dipterists Digest* **24** (2017): 223-224.

—— (2018) Changes to the Irish Diptera List (26). *Dipterists Digest* **25**: 84-86.

—— (2018) Flat-footed Fly Recording Scheme Newsletter 2 Spring 2018 pp 1-6. *Bulletin of the Dipterists Forum* **No. 85** (Spring).

—— (2018) Gnats new to Britain. Fungus Gnats Recording Scheme Newsletter 10 Spring 2018 pp 2-4. *Bulletin of the Dipterists Forum* **No. 85** (Spring). (*Brevicornu arcticum*, Wicklow)

—— (2018) Some flies (Diptera, Mycetophilidae and Lonchaeidae) new to Ireland from Breen Wood in Northern Ireland. *Dipterists Digest* **25**: 53-57.

—— (2019) Changes to the Irish Diptera List (27). *Dipterists Digest* **25** (2018): 176.

—— (2019) Changes to the Irish Diptera List (28). *Dipterists Digest* **26**: 60.

—— (2019) Changes to the Irish Diptera List (29) *Dipterists Digest* **26**: 160. (includes *Dioctria baumhaueri* Meigen (Asilidae) based on a newspaper report of a Cork record (*The Irish Times* 20 January 2018 by P. Woodward))

—— (2020) Changes to the Irish Diptera List (30). *Dipterists Digest* **27**: 82.

Chandler, P. J. and Alexander, K. N. A. (2008) *Sapromyza basalis* Zetterstedt, 1847 (Diptera, Lauxaniidae) new to Ireland. *Dipterists Digest* **14** (2007): 171-172.

Chandler, P. J., Ashe, P. and O'Connor, J. P. (2008) Notes on Ceratopogonidae (Diptera) including some new national records for Britain and Ireland. *Dipterists Digest* **15**: 73-94.

Chandler, P. J. and Drake, C. M. (2015) *Trixoscelis canescens* (Loew) (Diptera, Trixoscelididae) in Britain. *Dipterists Digest* **22**: 147-153.

Chandler, P. J. and O'Connor, J. P. (2009) A second Irish record of *Phytomyza fallaciosa* Brischke (Diptera: Agromyzidae). *Ir. Nat. J.* **29** (2008): 135.

—— (2010) *Campiglossa producta* (Loew, 1844) (Diptera, Tephritidae) new to Ireland. *Dipterists Digest* **17**: 16.

—— (2010) Four species of Diptera (Ceratopogonidae, Ephydridae and Calliphoridae) new to Ireland. *Dipterists Digest* **17**: 17.

—— (2010) *Phytomyza soenderupi* Hering, 1941 (Diptera, Agromyzidae) new to the Irish list. *Dipterists Digest* **17**: 18.

Chandler, P. J. and O'Connor, J. P. (2013) Notes on Irish Diptera (Anthomyiidae, Chloropidae, Carnidae) including *Anthomyia imbrida* Rondani new to Ireland. *Dipterists Digest* **20**: 78.

Chandler, P. J., O'Connor, J. P. and Nash, R. (2000) Diptera (Mycetophilidae, Empididae, Micropezidae, Drosophilidae, Sarcophagidae, Muscidae, Calliphoridae and Tachinidae) new to Ireland. *Dipterists Digest* **7**: 15-18.

—— (2008) *An annotated checklist of the Irish two-winged flies (Diptera).* The Irish Biogeographical Society in association with The National Museum of Ireland, Dublin.

Chandler, P. J., O'Connor, J. P., Nash, R. and Withers, P. (2002) Diptera new to Ireland in seventeen families. *Dipterists Digest* **9**: 121-136.

Chandler, P. J., O'Connor, J. P. and Ronayne, C. (2008) *Macronychia striginervis* (Zetterstedt, 1838) (Diptera, Sarcophagidae) new to Ireland. *Dipterists Digest* **14** (2007): 169-170.

Chandler, P. J., Plant, C. W., Ashby, M. and Bantock, T. (2016) Nine species of Diptera new to Ireland from Lough Neagh, Northern Ireland. *Dipterists Digest* **23**: 211-214.

Chandler, P. J. and Speight, M. C. D. (1983) A preliminary list of the Irish Tephritidae (Diptera), with notes on the species. *Bulletin of the Irish Biogeographical Society* **6**: 2-17.

Chique, C. and Potito, A. P. (2019) Distribution of chironomid subfossil assemblages in sediments of an Irish lake: controls and potential for paleoenvironmental applications. *Inland Waters* **9**: 534-550.

Chique, C., Potito, A. P., Molloy, K. and Cornett, J. (2018) Tracking recent human impacts on a nutrient sensitive Irish lake: integrating landscape to water linkages. *Hydrobiologia* **807**: 207-231. (Dipt.: Chironomidae)

Chvala, M. (1973) Notes on British *Tachydromia* (Dipt., Empididae) with description of a new species from Inverness-shire. *Entomologist's mon. Mag.* **108** (1972): 214-218.

—— (1988) Family Tabanidae. Pp 97-171. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **5**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1989) Family Microphoridae. Pp 171-174. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **6**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (2005) The Empidoidea (Diptera) of Fennoscandia and Denmark. IV Genus *Hilara*. *Fauna Entomologica Scandinavica* **40**.

Chvala, M. and Kovalev, V. G. (1989) Family Hybotidae. Pp 174-227. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **6**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Chvala, M. and Wagner, R. (1989) Family Empididae. Pp 228-336. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **6**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Claassens, A. J. M. (1966) Lice (Phthiraptera) and blood sucking flies (Dipt., Hippoboscidae) from Irish birds and mammals. *Entomologist's mon. Mag.* **101** (1965): 110.

Clabby, K. J. and Bracken, J. J. (1976) The Glencullen River Survey. *Scientific Proceedings of the Royal Dublin Society Ser. B* **3**: 355-370.

Claridge, M. F. (1958) *Opius caelatus* Hal. (Hym., Braconidae) and *Lamprotatus splendens* Westw. (Hym., Pteromalidae) parasites of *Pegomyia nigritarsis* (Zett) (Dipt., Anthomyiidae). *Entomologist's mon. Mag.* **94**: 227.

Clements, D. K. and Alexander, K. N. A. (1987) The distribution of the fly *Xylophagus ater* Meigen (Diptera: Xylophagidae) in the British Isles, with some notes on its biology. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 141-146.

Clemons, L. (2002) Tephritid Flies Recording Scheme. *Bulletin of the Dipterists Forum* **No. 53** (Spring 2002): 9.

—— (2003) Tephritid Flies Recording Scheme. *Bulletin of the Dipterists Forum* **No. 55** (Spring 2003): 9.

—— (2004) A provisional atlas of the Tephritidae (Diptera) of Britain and Ireland. Version 2. British Tephritidae Newsletter No. 8. 25pp. *In Bulletin of the Dipterists Forum* **No. 57** (December 2003).

—— (2013) Tephritid flies recording scheme July 2013. 5pp. *Bulletin of the Dipterists Forum* **No. 76** (Autumn).

—— (2018) Distribution maps of the Tephritidae of Britain and Ireland. *Bulletin of the Dipterists Forum* **No. 85** (Spring). 76pp.

—— (2020) Tephritid flies recording scheme june 2020. 6pp. *Bulletin of the Dipterists Forum* **No. 90** (Autumn). (*Acanthiophilus helianthi* new to Ireland from Belfast Airport)

Coe, R. L. (1941) Distribution of *Eristalsis abusivus* Collin (Dipt., Syrphidae) in the British Isles, with notes on the females. *Entomologist's mon. Mag.* **77**: 130-131.

—— (1942) The British species of the Genus *Chamaemyia* (Dipt., Chamaemyiidae). *Entomologist's mon. Mag.* **78**: 173-180.

—— (1953) Diptera Syrphidae. *Handbooks for the Identification of British Insects* **10**(1): 1-98.

—— (1966) Diptera Pipunculidae. *Handbooks for the Identification of British Insects* **10**(2c): 1-83.

—— (1966) Some British species of *Chalarus* and *Verrallia* (Diptera: Pipunculidae). *Proceedings of the Royal Entomological Society of London B* **35**: 149-160.

Coe, R. L., Freeman, P. and Mattingly, P. F. (1950) Diptera 2. Nematocera: families Tipulidae to Chironomidae. *Handbooks for the Identification of British Insects* **9**(2): 1-216.

Cogan, B. H. (1969) Two species of the Genus *Odinia* R.-D. (Dipt., Odiniidae) new to Britain, one of which is new to science. *Entomologist's mon. Mag.* **104** (1968): 252-254.

—— (1984) Family Ephydridae. Pp 126-176. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Cole, J. H. and Chandler, P. J. (1979) The fungus gnats (Diptera, Mycetophilidae) of Monk's Wood National Nature Reserve, Cambridgeshire. *Entomologist's Gazette* **30**: 47-55.

Collin, J. E. (1910-11) Additions and corrections to the British List of Muscidae Acalyptratae. *Entomologist's mon. Mag.* **46**: 169-178. **47**: 253-256.

Collin, J. E. (1921) The British species of the anthomyid Genus *Limnophora* Desv. (Diptera). *Entomologist's mon. Mag.* **57**: 162-175, 238-248.

—— (1926) Notes on the Empididae (Diptera) with additions and corrections to the British list. *Entomologist's mon. Mag.* **62**: 146-159. (*Stilpon nubila* Collin), 213-219. (*Rhamphomyia albohirta* Collin, *R. caliginosa* Collin)

—— (1927) Notes on the Empididae (Diptera) with additions and corrections to the British list. *Entomologist's mon. Mag.* **63**: 20-29. (*Hilara rejecta* Collin)

—— (1930) New species of Borboridae (Diptera). *Entomologist's mon. Mag.* **66**: 18-20.

—— (1931) Notes on some Syrphidae (Diptera). *Entomologist's mon. Mag.* **67**: 177-182.

—— (1942) On the genetic characters of *Psilopa* Fln. and the correct identity of *Discocerina pulicaria* Hal. (Dipt., Ephydridae). *Entomologist's mon. Mag.* **78**: 148-150.

—— (1944) The British species of Psilidae (Diptera). *Entomologist's mon. Mag.* **80**: 214-216.

—— (1948) A short synopsis of the British Sapromyzidae (Diptera). *Transactions of the Royal Entomological Society of London* **99**: 225-242.

—— (1958) A short synopsis of the British Scatophagidae (Diptera). *Transactions of the Society of British Entomology* **13**: 37-56. (Irish records)

—— (1961) *British flies. Empididae.* University Press, Cambridge.

—— (1963) The British species of *Ephydra* (Dipt., Ephydridae). *Entomologist's mon. Mag.* **99**: 147-152.

—— (1966) The British species of *Chamaemyia* Mg. (*Ochthiphila* Fln.) (Diptera). *Transactions of the Society of British Entomology* **17**: 121-128.

—— (1966) A revision of the British species of *Cetema* Hendel (Diptera, Chloropidae), with two species new to science. *Entomologist* **99**: 116-120.

Colyer, C. N. (1954) "Swarming" of Phoridae (Diptera). *Journal of the Society for British Entomology* **5**: 22-27.

—— (1954) The problem of *Megaselia* (*Aphiochaeta*) *dahli* (Becker, 1901) and *M.* (*A.*) *humilis* (Wood, 1909) (Dipt., Phoridae). *Entomologist's mon. Mag.* **90**: 121-128.

Cotton, D. C. F. (1978) Laboratory evidence for intra-specific competition in the larvae of some diptera living in cow-pats. Pp 155-164. *In* The Proceedings of the Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society A* **6**: 155-164.

—— (1979) Observations on the sex ratio of adult *Scathophaga stercoraria* (L.) (Diptera: Scathophagidae). *Ir. Nat. J.* **19**: 347-348.

—— (2013) Brachycera of Counties Sligo and Leitrim, north-west Ireland. Pp 4-5 *in* Stubbs, A. and Drake, M. (eds) Soldierflies and Allies Recording Scheme - Newsletter 1. *Bulletin of the Dipterists Forum* **No. 76** (Autumn).

Cranston, P. S. (1975) Corrections and additions to the list of British Chironomidae (Diptera). *Entomologist's mon. Mag.* **110** (1974): 87-95.

Cranston, P. S. and Ashe, P. (2013) The larvae of Buchonomyiinae (Diptera: Chironomidae) - Keys and diagnoses. Pp 25-28. *In* Andersen, T., Cranston, P. S. and Epler, J. H. (eds) Chironomidae of the Holarctic Region - Keys and diagnoses - Larvae. *Insect Systematics & Evolution, Supplement* **66**. (*Buchonomyia thienemanni* record from the River Flesk, southwest Ireland)

Cranston, P. S., Hardy, N. B., Morse, G. E. and McCluen, S. R. (2010) When molecules and morphology concur: the 'Gondwanan' midges (Diptera: Chironomidae). *Systematic Entomology* **35**: 636-648. (*Buchonmyia thienemanni* in online version)

Cranston, P. S. and Hockin, D. C. (1981) *Halocladius* (*Psammocladius*) *braunsi* (Goetghebuer) (Diptera: Chironomidae): first records of the subgenus and species from Britain and Ireland. *Entomologist's Gazette* **32**: 43-45.

Cranston, P. S., Ramsdale, C. D., Snow, K. R. and White, G. B. (1987) Keys to the adults, male hypopygia, fourth-instar larvae and pupae of the British mosquitoes (Culicidae) with notes on their ecology and medical importance. *Scientific Publications of the Freshwater Biological Association* **No. 48**: 1-152.

Crellin, S. (2009) Sepsid Recording Scheme. *Bulletin of the Dipterists Forum* **No. 67** (Spring 2009): 7.

Crory, A. and Anderson, R. (2013) Site Guide: Murlough Nature Reserve, Co. Down, Northern Ireland. *Atropos* **50**: 17-25.

Crosskey, R. W. (1985) The rediscovery of *Simulium yerburyi* Edwards in Britain and its part in a taxonomic reassessment of variability in *Simulium* (*Hellichiella*) *latipes* (Meigen) (Diptera: Simuliidae). *Entomologist's Gazette* **36**: 209-226.

—— (1991) A new checklist of the blackflies of Britain and Ireland, with geographical and type information (Diptera: Simuliidae). *Entomologist's Gazette* **42**: 206-217.

—— (2004) A contribution to breeding site record data for blackflies (Diptera, Simuliidae) in Ireland. *Dipterists Digest* **10**: 95-105.

Crosskey, R. W., Bass, J. A. B. and Werner, D. (2007) On the geography of *Simulium posticatum* in Britain. *British Simuliid Group Bulletin* **27**: 5-14. (Ireland mentioned)

Crosskey, R. W. and Howard, T. M. (1997) *A new taxonomic and geographical inventory of world blackflies (Diptera: Simuliidae).* The Natural History Museum, London. 144pp.

Curran, C. H. (1920) Notes on some Syrphidae (Diptera) collected in England and France during 1917-18. *The Canadian Entomologist* **52**: 35-37.

Curran, F. C. T. (2002) Emergence of Chironomidae (Diptera: Insecta) at the Avoca River, Co. Wicklow, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2001): 3546-3549.

Curry, J. P. (1987) Soil invertebrates as monitors of the effects of slurry and pesticide application. Pp 123-136. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin.

Curry, J. P. and Momen, F. M. (1988) The arthropod fauna of grassland on reclaimed cutaway peat in Central Ireland. *Pedobiologia* **32**: 99-109. (Diptera - one named species)

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London.

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London.

—— (1883) *Farm insects*. Blackie and Son, London.

Curtis, T., Downes, S. and Ní Chathin, B. (2009) The ecological requirements of water-dependent habitats and species designated under the habitats directive. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 261-319.

Cuthbert, H. G. (1902) *Bombylius canescens. Ir. Nat.* **11**: 150.

D'Arcy, G. (1992) Fauna observed on Clare Island, Co Mayo, June 14-18 1990. *Ir. Nat. J.* **24**: 33-34.

D'Arcy-Burt, S. (1986) *Triphleba intermedia* Malloch (Diptera: Phoridae) new to Ireland. *Ir. Nat. J.* **22**: 112.

—— (1987) A fungal pathogen of larvae of *Bibio johannis* and *Dilophus febrilis* L. (Dipt., Bibionidae). *Entomologist's mon. Mag.* **123**: 120.

D'Arcy-Burt, S. and Blackshaw, R. P. (1985) A distribution study of bibionid larvae in grassland. *Proceedings of a symposium on Weeds, Pests and Diseases of Grassland and Herbage Legumes, University of Nottingham, 10-12 April 1985.* p. 301.

—— (1986) Distribution studies on grassland Bibionidae. *First International Congress of Dipterology*, Budapest. p. 52.

D'Arcy-Burt, S. and Chandler, P. J. (1987) Irish Bibionidae and Scatopsidae (Diptera: Nematocera). *Ir. Nat. J.* **22**: 224-231.

Dahl, C. and Alexander, C. P. (1976) A world catalogue of Trichoceridae Kertesz, 1902, (Diptera). *Entomologica Scandinavica* **7**: 7-18.

Dahl, C. and White, G. B. (1978) Culicidae. Pp 390-395. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Dahl, R. (1978) Ephydridae. Pp 482-484. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Dale, C. W. (1890) Notes on the British Platypezidae. *Entomologist's mon. Mag.* **26**: 107-109.

Dale, H. W. (1938) A crane fly query. *Ir. Nat. J.* **7**: 124.

Dale, J. C. (1842) Descriptions, etc. of a few rare or undescribed species of British Diptera principally from the collection of J. C. Dale. *Annals and Magazine of Natural History* **8**: 430-433.

Dauod, H. A., Bolger, T. and Bracken, J. J. (1985) Studies on the minnow *Phoxinus phoxinus* (L.) from an upland Irish reservoir system. *Irish Fisheries Investigations Series A* **No. 26**: 3-22.

—— (1985) Studies on the three-spined stickleback *Gasterosteus aculeatus* L. from an upland reservoir system. *Irish Fisheries Investigations Series A* **No. 27**: 3-16.

—— (1986) Age, growth and diet of the brown trout *Salmo trutta* L. in the Roundwood Reservoir system. *Irish Fisheries Investigations Series A* **No. 28**: 3-21.

Davies, J. (2009) Who was…? Honorific names: some more mini-biographies. *British Simuliid Group Bulletin* **32**: 11-13. (*Simulium buckleyi* De Meillon named (implicit) for John Joseph Cronin Buckley (1904-1972))

—— (2010) Who was…? Honorific names: some more mini-biographies. *British Simuliid Group Bulletin* **33**: 14-20. (James Patrick McMahon (1904-1983) of Irish descent)

Davies, L. (1987) The distribution in Scotland and Ireland of *Calliphora uralensis* and its occurrence with and separation from *C. vicina* (Insecta: Diptera). *Ir. Nat. J.* **22**: 241-244.

Davies, L. and Laurence, B. R. (1992) The distribution of *Calliphora* species in Britain and Ireland (Dipt., Calliphoridae). *Entomologist's mon. Mag.* **128**: 207-213.

Davis, S. J., Mellander, P.-E., Kelly, A.-M., Matthaei, C. D., Piggott, J. J. and Kelly-Quinn, M. (2018) Multiple-stressor effects of sediment, phosphorus and nitrogen on stream macroinvertebrate communities. *Science of the Total Environment* **637**: 577-587.

Day, J. C. (2010) *Simulium angustipes* (Diptera: Simuliidae) found in the tidal region of a stream in Cornwall. *British Simuliid Group Bulletin* **33**: 8-10. (*Simulium aureum*)

Day, J. C., Mustapha, M. and Post, R. J. (2010) The subgenus *Eusimulium* (Diptera: Simuliidae: *Simulium*) in Britain. *Aquatic Insects* **32**: 281-292.

de Courcy Williams, M. (1986) *Odinia bolentina* (Zetterstedt) (Diptera: Odiniidae) new to Ireland. *Ir. Nat. J.* **22**: 117-118.

—— (1989) A list of Irish Ephydridae (Diptera) based on the Haliday collection in the National Museum of Ireland. *Ir. Nat. J.* **23**: 6-11.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

de Courcy Williams, M. and O'Connor, J. P. (1989) The Ephydridae (Diptera) relating to species descriptions by A. H. Haliday (1806-70) in the National Museum of Ireland, with notes on the collection. *Proceedings of the Royal Irish Academy* **89**B: 59-70.

de Eyto, E., Doyle, B., King, N., Kilbane, T., Finlay, R., Sibigtroth, L., Graham, C., Poole, R., Ryder, E., Dillane, M. and Jennings, E. (2020) Characterisation of salmonid food webs in the rivers and lakes of an Irish peatland ecosystem. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 1-17.

De Jong, H. (1993) The phylogeny of the *Tipula* (*Acutipula*) *maxima* species group, with notes on its distribution. *Entomological Scandinavica* **24**: 433-457. (Ireland mentioned for *Tipula maxima* Poda)

Deady, R. J. (2013) Four species of Mycetophilidae (Diptera) new to Ireland. *Ir. Nat. J.* **32**: 145-147.

Dear, J. P. (1981) Blowfly recording scheme - an interim report. *Entomologist's mon. Mag.* **117**: 75-76.

Dely-Draskovits, A. (1993) Family Anthomyiidae. Pp 11-102. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **13**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Dietzsch, A. C., Stanley, D. A. and Stout, J. C. (2011) Relative abundance of an invasive alien plant affects native pollination processes. *Oecologia* **167**: 469-479.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species)

Disney, R. H. L. (1975) A key to the larvae, pupae and adults of the British Dixidae (Diptera) the Meniscus Midges. *Scientific Publications of the Freshwater Biological Association* **31**: 1-78.

—— (1977) Scuttle flies (Diptera: Phoridae) from Inishbofin, Co. Galway. *Ir. Nat. J.* **19**: 57-61.

Disney, R. H. L. (1979) The British *Metopina* (Diptera: Phoridae) with description of a new species. *Zoological Journal of the Linnean Society* **67**: 97-113.

—— (1980) Records of flower visiting by scuttle flies (Diptera: Phoridae) in the British Isles. *Naturalist* **105**: 45-50.

—— (1980) What is *Conicera minuscula* Schmitz (Diptera: Phoridae)? *Entomologist's Gazette* **31**: 202.

—— (1982) A new species of *Phora* (Diptera: Phoridae) from Ireland. *Ir. Nat. J.* **20**: 424-425.

—— (1983) Scuttle flies Diptera, Phoridae (except *Megaselia*). *Handbooks for the Identification of British Insects* **10**(6): 1-81.

—— (1988) Three new species of *Megaselia* (Dipt., Phoridae) from the British Isles, plus new synonyms. *Entomologist's mon. Mag.* **124**: 7-14.

—— (1989) Scuttle flies Diptera: Phoridae Genus *Megaselia*. *Handbooks for the Identification of British Insects* **10**(8): 1-155.

—— (1991) Family Phoridae. Pp 143-204. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera*. **7**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1999) British Dixidae (meniscus midges) and Thaumaleidae (trickle midges): keys with ecological notes. *Scientific Publications of the Freshwater Biological Association* **No. 56**: 1-128.

—— (2003) Revisionary notes on European Phoridae (Diptera). *Bonner zoologische Beiträge* **50**: 293-304. (*Megaselia similifrons* Schmitz)

—— (2008) *Megaselia longistyla* Brenner, 2004 (Diptera: Phoridae) new to the British Isles. *Entomologist's Gazette* **59**: 129-130.

Dobson, J. R. (1999) A 'bee-louse' *Braula schmitzi* Örösi-Pál (Diptera: Braulidae) new to the British Isles, and the status of *Braula* spp. in England and Wales. *British Journal of Entomology and Natural History* **11**: 139-148. (mentions occurrence of *Braula* in the Irish Republic)

Doherty, D. and McCarthy, T. K. (2000) The metazoan parasites, diets and general biology of arctic char, *Salvelinus alpinus* L., in two Irish lakes. *Verh. Internat. Verein. Limnol*. **27**: 1056-1061.

Dominiak, P. and Szadziewski, R. (2010) Distribution and new synonymy in European biting midges of the genus *Dasyhelea* Kieffer (Diptera: Ceratopogonidae). *Zootaxa* **2437**: 1-37. (*Dasyhelea saxicola = D. bilineata*)

Donnithorne, N. (2010) Field work in Ireland. *Darter Magazine* **27**: 22. (*Forcipomyia paludis*)

Douglas, D. J. (1982) The chironomid fauna of three lakes in the Killarney valley. *Journal of Life Sciences of the Royal Dublin Society* **3**: 369-378.

Douglas, D. J. and Murray, D. A. (1980) A checklist of the Chironomidae (Diptera) of the Killarney Valley Catchment area, Ireland. Pp 123-129. *In* Murray, D. A. (ed.) *Chironomidae: ecology, systematics, cytology and physiology*. Pergamon, Oxford.

Dowling, C. and Murray, D. A. (1980) *Zalutschia humphriesiae* sp. n. a new species of Orthocladiinae (Diptera, Chironomidae) from Ireland. *Acta Universitatis Carolinae - Biologica* **1-2** (1978): 49-58.

Dowling, C. and Murray, D. A. (1981) The distribution of the Chironomidae (Diptera) in two Irish blanket bogs. *Proceedings of the Royal Irish Academy* **81**B: 53-61.

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Downer, R. G. H. (1967) Species of the Genus *Drosophilia* (Diptera) indigenous to Ireland. *Ir. Nat. J.* **15**: 354-357.

Downes, J. A. and Kettle, D. S. (1952) Descriptions of three species of *Culicoides* Latreille (Diptera: Ceratopogonidae) new to science, together with notes on, and a revised key to the British species of the *pulicarus* and *obsoletus* groups. *Proceedings of the Royal Entomological Society of London B* **21**: 61-78.

Drake, C. M. (1991) *Provisional atlas of the larger Brachycera (Diptera) of Britain and Ireland.* Biological Records Centre, Huntingdon. 131pp.

—— (1993) A review of the British Opomyzidae (Diptera). *British Journal of Entomology and Natural History* **6**: 159-176.

—— (2001) The British species of *Notiphila* Fallén (Diptera, Ephydridae), with the description of a new species. *Dipterists Digest* **8**: 91-126. (*N. subnigra*)

Drake, C. M. and Chandler, P. J. (1997) Re-instatement of *Dolichocephala oblongoguttata* (Diptera, Empididae) as a valid species. *Dipterists Digest* **4**: 74-77.

Drake, M. (2002) *Hercostomus angustifrons*, *H. blankaartensis* and *Chersodromia cursitans* (Diptera), new to Ireland. *Ir. Nat. J.* **26** (2001): 467-469.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53)

Duncan, J. (1837) Characters and descriptions of the dipterous insects indigenous to Britain. *Magazine of Zoology and Botany* **1**: 145-167, 359-368, 453-459.

—— (1838) Characters and descriptions of the dipterous insects indigenous to Britain. *Magazine of Zoology and Botany* **2**: 205-222.

Dunlop, S. (2016) Identifying leaf miners. *Biodiversity Ireland* **Issue 14**: 16. (Col., Dipt., Hym., Lep.)

Dunne, R. and O'Connor, J. P. (1989) Some insects (Thysanoptera: Diptera) of economic importance, new to Ireland. *Ir. Nat. J.* **23**: 63-65.

Dusek, J. and Laska, P. (1973) Descriptions of five new European species of Genus *Metasyrphus* (Diptera: Syrphidae) with notes on variation within the species. *Acta Entomologica Bohemoslavica* **70**: 415-426.

Dyte, C. E. (1969) A provisional list of Irish Dolichopodidae (Diptera). *Entomologist* **102**: 40-48.

Dyte, C. E. and Poulding, R. H. (1992) The distribution of *Aphrosylus mitis* (Diptera, Dolichopodidae). *Dipterists Digest* **12**: 32-38.

Eaton, A. E. (1895 & 1898) Supplement to "A Synopsis of British Psychodidae". *Entomologist's mon. Mag.* **31**: 208-213. **34**: 117-125.

—— (1904) New genera of European Psychodidae. *Entomologist's mon. Mag.* **40**: 55-59.

Ebejer, M. and Andrade, R. (2015) The Chloropidae (Diptera: Brachycera) of mainland Portugal with description of a new species of *Lasiosina* Becker. *Entomologist's mon. Mag.* **151**: 227-271. (Ireland mentioned in some species' distributions)

Edwards, F. W. (1912) Notes on British mosquitoes (Culicinae). *Entomologist* **45**: 191-195.

—— (1915) The British species of *Simulium* (Diptera). *Entomologist's mon. Mag.* **51**: 305-309.

—— (1915-16) On the British species of *Simulium*-I. the adults. *Bulletin of Entomological Research* **6**: 23-42.

—— (1926) On the British biting midges (Diptera, Ceratopogonidae). *Transactions of the Entomological Society of London* **74**: 389-426.

—— (1929) Diptera in the Killarney District. *Entomologist* **62**: 163-164.

—— (1929) Do Blepharoceridae occur in Britain? *Entomologist* **62**: 171.

—— (1929) The British species of *Lestremia* and allied genera (Diptera, Cecidomyiidae). *Entomologist's mon. Mag.* **65**: 9-16.

—— (1929) British non-biting midges (Diptera, Chironomidae). *Transactions of the Entomological Society of London* **77**: 279-430.

—— (1930) The British species of *Chaoborus* and *Mochlonyx* (Diptera, Culicidae). *Entomologist's mon. Mag.* **66**: 163-165.

—— (1938) British short-palped craneflies. Taxonomy of adults. *Transactions of the Society of British Entomology* **5**: 1-168, 31 figs, 5 pls.

—— (1938) On the British Lestremiinae, with notes on exotic species - 3. (Diptera, Cecidomyiidae). *Proceedings of the Royal Entomological Society of London B* **7**: 102-108.

—— (1941) Notes on British Fungus-gnats (Dipt., Mycetophilidae). *Entomologist's mon. Mag.* **77**: 21-32, 67-82.

Ekrem, T. (2007) A taxonomic revision of the genus *Stempellinella* (Diptera: Chironomidae). *Journal of Natural History* **41**: 1367-1465. (*S. flavidula*)

Emden, F. I. van (1944) *Taeniorhynchus richiardii* Fic. (Dipt., Culicidae) new to Scotland. *Entomologist's mon. Mag.* **80**: 255.

—— (1954) Diptera Cyclorrhapha Calyptrata (I) section (a) Tachinidae and Calliphoridae. *Handbooks for the Identification of British Insects* **10**(4a): 1-133.

Erzinclioglu, Z. (1996) *Blowflies*. *Naturalists' Handbooks* **23**. The Richmond Publishing Co. Ltd, Slough. (presence of *Calliphora uralensis* mentioned)

Evenhuis, N. L. (2007) On a little-known work by A.H. Haliday containing nomenclatural notes on Diptera genus-group names (Insecta: Brachycera). *Zootaxa* **1407**: 65-66.

Fahy, E. (1972) The larva and life history of *Dicranota guerini* Zett. (Dipt., Tipulidae). *Entomologist* **105**: 260-263.

—— (1972) A preliminary account of the Simuliidae (Diptera) in Ireland, with observations on the growth of three species. *Proceedings of the Royal Irish Academy* **72**B: 75-81.

—— (1972) Taxonomic observations on the larvae of *Eukiefferiella calvescens* Edw. and *E. verralli* Edw. (Diptera, Chironomidae). *Entomologisk tidskrift* **93**: 30-35.

—— (1973) Observations on lotic chironomid life cycles in Western Ireland. *Entomologisk tidskrift* **94**: 83-88.

Fahy, E. (1975) Salmonid stocks of the Cloonee catchment in Co. Kerry. *Fishery Leaflet of the Department of Agriculture, Fisheries Division Dublin* **No. 95**: 1-8.

Fahy, E. and Murray, D. A. (1972) Chironomidae from a small stream system in Western Ireland with a discussion of species composition of the group (Dipt.). *Entomologisk tidskrift* **93**: 148-155.

Falk, S. (2013) *Macronychia agrestis* (Fallén) (Diptera, Sarcophagidae) new to Britain, with notes on the other British *Macronychia* species. *Dipterists Digest* **20**: 57-61.

Falk, S. J. (2005) The identification and status of *Dryomyza decrepita* Zetterstedt (Diptera, Dryomyzidae). *Dipterists Digest* **12**: 7-12.

Falk, S. J. and Crossley, R. (2005) *A review of the scarce and threatened flies of Great Britain. Part 3: Empidoidea. Species status 3.* Pp 1-134. Joint Nature Conservation Committee, Peterborough.

Falk, S. J., Ismay, J. W. and Chandler, P. J. (2016) *A provisional assessment of the status of Acalyptratae flies in the UK.* Natural England Commissioned Reports, **Number 217**. (*Acrometopia wahlbergi*, *Odinia xanthocera*)

Falk, S. J. and Pont, A. C. (2017) *A provisional assessment of the status of calyptrate flies in the UK*. Commissioned Reports **No. 234**. Natural England.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Feeley, H. B., Davis, S., Bruen, M., Blacklocke, S. and Kelly-Quinn, M. (2012) The impact of a catastrophic storm event on benthic macroinvertebrate communities in upland headwater streams and potential implications for ecological diversity and assessment of ecological status. *Journal of Limnology* **71**: 299-308.

Feeley, H. B. and Kelly-Quinn, M. (2012) An evaluation of local and regional diversity of benthic macroinvertebrate communities in two small regions of Ireland and their potential as localised refugia for certain taxonomic groups. *Biology and Environment: Proceedings of the Royal Irish Academy* **112**B: 43-54.

—— (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218.

Feeney, A. M. (1967) An improved method of extracting leatherjackets from soil and an evaluation of the Maercks method. *Scientific Proceedings of the Royal Dublin Society Ser. B* **2**: 75-80.

—— (1968) A list of crane-flies of the genera *Tipula* and *Nephrotoma* captured in counties Leitrim and Carlow. *Ir. Nat. J.* **16**: 48-49.

Fitch, E. A. (1881) The mangold-fly. *Entomologist* **14**: 8-13.

Fittkau, E. J. and Reiss, F. (1978) Chironomidae. Pp 404-440. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Fitzpatrick, Ú. (2016) Biodiversity tales. Bees and hoverflies. *Biodiversity Ireland* **Issue 13**: 16.

Flavin, D. A., Biggane, S. S., Shiel, C. B., Smiddy, P. and Fairley, J. S. (2001) Analysis of the diet of Daubenton's bat *Myotis daubentonii* in Ireland. *Acta Theriologica* **46**: 43-52.

Flemyng, W. W. (1918) *Sphinx convolvuli* attacked by larvae of Diptera. *Ir. Nat.* **27**: 13.

Flynn, J. A. (1952) Dirty milk bottles with special reference to infestation by the Phorid Fly *Paraspiniphora bergenstammi* (Mik). *Irish Veterinary Journal* **6**: 405-407.

Fonseca, E. C. M. D'Assis (1968) Diptera Cyclorrhapha section (b) Muscidae. *Handbooks for the Identification of British Insects* **10**(4b): 1-119.

—— (1978) Diptera Orthorrhapha Brachycera Dolichopodidae. *Handbooks for the Identification of British Insects* **9**(5): 1-90.

Foot, A. W. (1891) Notes on Irish Diptera. *Proceedings of the Natural History Society of Dublin* **6**: 71-74.

Foote, R. H. (1984) Family Tephritidae (Trypetidae). Pp 66-149. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Ford, T. H. and Shaw, M. R. (1991) Host records of some West Palaearctic Tachinidae. *Entomologist's Rec. J. Var.* **103**: 23-38.

Fox-Wilson, G. (1935) *Phylloxera* on vines, a new British record. *Proceedings of the Royal Entomological Society of London A* **10**: 25-28.

Frankum, M. (2008) Report of the BPGS invertebrate group workshop, March 2nd 2008. *Cecidology* **23**: 46-50. (update on *Eupontania* galls, Burren mentioned)

Fraser, J. K. (1957) *Tropidia scita* Harris (Dipt., Syrphidae) in Co. Antrim. *Entomologist's mon. Mag.* **93**: 18.

—— (1958) *Zodion cinerum* (F.) (Dipt., Conopidae) in Ireland. *Entomologist's mon. Mag.* **94**: 280.

Freeman, P. (1983) Sciarid flies Diptera, Sciaridae. *Handbooks for the Identification of British Insects* **9**(6): 1-68. (*Trichosia pilosa* in Killarney)

Freeman, P. and Lane, R. P. (1985) Bibionid and scatopsid flies. Diptera: Bibionidae and Scatopsidae. *Handbooks for the Identification of British Insects* **9**(7): 1-74.

Fritch, R. A., Sheridan, S., Finn, J. A., McCormack, S. and Ó hUallacháin, D. (2017) Enhancing the diversity of breeding invertebrates within field margins of intensively managed grassland: Effects of alternative management practices. *Ecology and Evolution* **7**: 9763-9774.

Garbary, D. J. and Brown, N. E. (2013) *Halocladius variabilis* (Staeger, 1839) (Insecta: Chironomidae) from the rocky intertidal zone of Galway Bay. *Ir. Nat. J.* **32**: 70-71.

Georgaki, A., Murchie, A., McKeown, I., Mercer, D., Millington, S., Thurston, W., Burns, K., Cunningham, B., Harkin, V. and Menzies, F. (2019) Bluetongue Disease Control in Northern Ireland during 2017 and 2018. *Frontiers in Veterinary Science* **6**: 456. doi: 10.3389/fvets.2019.00456

Geraghty, F. and McCarthy, T. K. (2006) New records of blackflies (Diptera: Simuliidae) from Co Galway. *Ir. Nat. J.* **28**: 204-207.

Gerbachevskaja-Pavluchenko, A. A. (1986) Family Sciaridae. Pp 319-330. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **4**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Ghahari, H., Hayat, R., Tabari, M. and Ostovan, H. (2008) Hover flies (Diptera: Syrphidae) from rice fields and around grasslands of Northern Iran. *Munis Entomology & Zoology* **3**: 275-284. (several Irish species)

Gibbs, D. (2004) *Gymnomus spectabilis* (Loew, 1862) (Diptera, Heleomyzidae) in Britain. *Dipterists Digest* **11**: 114-116. (*G. caesius*)

—— (2016) Forum News Pipunculidae Study Group. *Bulletin of the Dipterists Forum* **No. 81** (Spring): 6. (summary of Irish records on map)

Gibbs, D. J. and Chandler, P. J. (2008) *Eudorylas longifrons* Coe, 1966 (Diptera, Pipunculidae) new to Ireland. *Dipterists Digest* **15**: 98.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 115-126.

Gisondi, S., Rognes, K., Badano, D., Pape, T. and Cerretti, P. (2020) The world Polleniidae (Diptera, Oestroidea): key to genera and checklist of species. *Zookeys* **971**: 105-155.

Gittings, T. (2006) *Lapposyrphus lapponicus* (Zetterstedt, 1838) a hoverfly (Diptera, Syrphidae) new to Ireland. *Ir. Nat. J.* **28**: 301.

—— (2007) *Odontomyia angulata* (Panzer, 1798) a soldierfly (Diptera, Stratiomyidae) new to Ireland. *Ir. Nat. J.* **28**: 419.

Gittings, T., Giller, P. and O'Halloran, J. (2005) Notable Irish hoverfly (Diptera: Syrphidae) records, 2001 and 2002. *Ir. Nat. J.* **28**: 132-133.

Gittings, T., O'Halloran, J., Kelly, T. and Giller, P. S. (2006) The contribution of open spaces to the maintenance of hoverfly (Diptera, Syrphidae) biodiversity in Irish plantation forests. *Forest Ecology and Management* **237**: 290-300.

Gittings, T. and Speight, M. C. D. (2009) *Colobaea pectoralis* (Zetterstedt, 1847) and *Pherbellia dorsata* (Zetterstedt, 1846) snail-killing flies (Diptera, Sciomyzidae) new to Ireland. *Ir. Nat. J.* **29** (2008): 116-118.

—— (2011) *Sciomyza simplex* Fallén, 1820 and *Sciomyza testacea* Macquart, 1835, snail-killing flies (Diptera, Sciomyzidae) new to Ireland. *Ir. Nat. J.* **31** (2010): 91-93.

Godfray, H. C. J. (2010) Four species of *Phytomyza* Fallén (Diptera, Agromyzidae) new to the Irish list. *Dipterists Digest* **17**: 17-18.

Godfrey, A. (1994) *Lyciella stylata* Papp and *L. subpallidiventris* Papp (Diptera: Lauxaniidae) new to Britain. *British Journal of Entomology and Natural History* **7**: 81-84.

—— (1999) A review of Diptera from exposed riverine sediments based on literature records. *Dipterists Digest* **6**: 63-82. (*Tachydromia halidayi* (Collin))

Goeldlin de Tiefenau, P., Maibach, A. and Speight, M. C. D. (1990) Sur quelques espèces de *Platycheirus* (Diptera, Syrphidae) nouvelles ou méconnues. *Dipterists Digest* **5**: 19-44.

Goetghebuer, M., Humphries, C. F. and Fitzgerald, A. M. (1949) Metamorphosis of the Chironomidae. I. A description of the larvae, pupae and imagines of some members of the genus *Eukiefferiella* (Kieff.), of the larva of *Orthocladius crassicornis* (Goetgh.) and of the imago of *Orthocladius flaveolus* (Goetgh.). *Hydrobiologia* **1**: 410-424.

Goffe, E. R. (1930) British Tabanidae (Diptera) with an account of the principal variation. With descriptions of a number of new forms, and of some additions to the British list. *Transactions of the Entomological Society of the South of England* **6**: 43-114, plates I-II.

Goldie-Smith, E. K. (1990) Distribution maps for Dixidae in Great Britain and Ireland. *Dipterists Digest* **3**: 8-26.

Good, J. A. (1986) Insect visitors to *Iris pseudacorus* (Iridaceae) in Ireland. *Ir. Nat. J.* **22**: 71-74.

—— (1986) Invertebrates of Irish midlands raised bogs: part IV. Notes on terrestrial insects. *Bulletin of the Irish Biogeographical Society* **9**: 2-9.

—— (1998) The potential role of ecological corridors for habitat conservation in Ireland: a review. *Irish Wildlife Manuals* **No. 2**. 72pp.

—— (2009) Local and regional studies of Cryptobiota: esoteric stamp collecting or essential ecology? *Bulletin of the Irish Biogeographical Society* **33**: 115-169.

Good, J. A. and Sleeman, D. P. (1988) Extensions in range of two pest species: *Leptocera caenosa* (Rondani) (Diptera: Sphaeroceridae) and *Alphitobius diaperinus* (Panzer) (Coleoptera: Tenebrionidae). *Ir. Nat. J.* **22**: 501.

Good, J. A. and Speight, M. C. D. (1991) Sites of international and national importance for invertebrate fauna - a definition proposed for use in site surveys. *Bulletin of the Irish Biogeographical Society* **14**: 48-53.

Gormally, M. J. (1985) The effect of temperature on the duration of the egg stage of certain sciomyzid flies which predate *Lymnaea truncatula. Journal of Thermal Biology* **10**: 199-203.

—— (1985) *Ilione albiseta* - potential biological control agent of liver fluke? *Irish Grassland and Animal Production Association 11th Annual Research Meeting*, Dublin. 3pp.

—— (1987) Notes on the larval habitat of *Ilione albiseta* with records of other Sciomyzidae (Diptera) collected at the same localities in Co Sligo. *Ir. Nat. J.* **22**: 231-236.

—— (1987) Effect of temperature on the duration of larval and pupal stages of two species of sciomyzid flies, predators of the snail *Lymnaea truncatula. Entomologia Experimentalis et Applicata* **43**: 95-100.

—— (1988) Temperature and the biology and predation of *Ilione albiseta* (Diptera: Sciomyzidae) - potential biological control agent of liver fluke. *Hydrobiologia* **166**: 239-246.

—— (1988) Egg-laying studies of certain malacophagous flies with particular reference to *Ilione albiseta* (Diptera: Sciomyzidae). *Entomophaga* **33**: 387-395.

Gorodkov, K. B. (1984) Family Helcomyzidae. Pp 149-150. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— Family Coelopidae. Pp 151-152. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera.* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1986) Family Scatophagidae. Pp 11-41. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **11**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Graham, D. A., Gallagher, C., Carden, R. F., Lozano, J.-M., Moriarty, M. and O'Neill, R. (2017) A survey of free-ranging deer in Ireland for serological evidence of exposure to bovine viral diarrhoea virus, bovine herpes virus-1, bluetongue virus and Schmallenberg virus. *Irish Veterinary Journal* **70** Issue 13, 11pp. DOI 10.1186/s13620-017-0091-z (Culicoides)

Grainger, J. P. and Fairley, J. S. (1978) Studies on the biology of the pygmy shrew *Sorex minutus* in the west of Ireland. *Journal of Zoology, London* **186**: 109-141.

Grayson, A. (2002) Confirmation that *Hybomitra muehlfeldi* (Brauer) (Diptera: Tabanidae) is an Irish species. Larger Brachycera Recording Scheme Newsletter 21. Pp 2-3 (unnumbered). *In Bulletin of the Dipterists Forum* **No. 54**.

—— (2017) *Ocytata pallipes* (Fallén) (Diptera, Tachinidae) new to Ireland. *Dipterists Digest* **24**: 47-48.

Grichanov, I. Y. (2007) A checklist and keys to Dolichopodidae (Diptera) of the Caucasus and East Mediterranean. *Plant Protection News, Supplement.* All-Russian Institute of Plant Protection RAAS, St Petersburg. 160pp.

Griffiths, G. C. D. (1964) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). 1. General questions of taxonomy, biology and evolution. *Beiträge zur Entomologie* **14**: 823-914.

—— (1966) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). II. The parasites of *Agromyza* Fallén. *Beiträge zur Entomologie* **16**: 551-605.

—— (1967) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). III. The parasites of *Paraphytomyza* Enderlein, *Phytagromyza* Hendel and *Phytomyza* Fallén. *Beiträge zur Entomologie* **16** (1966): 775-951.

—— (1967) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). IV. The parasites of *Hexomyza* Enderlein, *Melanagromyza* Hendel, *Ophiomyia* Braschnikov and *Napomyza* Westwood. *Beiträge zur Entomologie* **17**: 653-696.

—— (1967) Notes on the Genus *Napomyza* Westwood (Diptera: Agromyzidae). *Proceedings of the Royal Entomological Society of London B* **36**: 128-130.

—— (1968) Agromyzidae (Diptera) from Ireland. *Proceedings of the Royal Irish Academy* **67**B: 37-61.

—— (1968) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). VI. The parasites of *Cerodontha* Rondani s. l. *Beiträge zur Entomologie* **18**: 63-152.

—— (1984) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). VII. Supplement. *Beiträge zur Entomologie* **34**: 343-362.

Grimshaw, P. H. (1905-1906) On the British species of *Hydrotaea*, Dsv. *Entomologist's mon. Mag.* **41**: 239-247. **42**: 8-11, 72-77.

—— (1907) Contributions to the natural history of Lambay. Diptera. *Ir. Nat.* **16**: 43.

—— (1910) Irish Field Club Union. Rosapenna Conference. Diptera. *Ir. Nat.* **19**: 178.

—— (1912) Clare Island Survey. 25. Diptera. *Proceedings of the Royal Irish Academy* **31**(25): 34pp.

H. M. D. (1938) A crane fly query. *Ir. Nat. J.* **7**: 124.

Hackman, W., Lastovka, P., Matile, L. and Väisänen, R. (1988) Family Mycetophilidae (Fungivoridae). Pp 220-327. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Halbert, J. N. (1907) Irish Field Club Union. Cork Conference, Diptera. *Ir. Nat.* **16**: 289.

Haliday, A. H. (1833) Catalogue of Diptera occurring about Holywood in Downshire. *The Entomological Magazine* **I**: 147-180.

—— (1832) The characters of two new dipterous genera, with indications of some generic subdivisions and several undescribed species of Dolichopodidae. *Zoological Journal, London* **5**: 350-368, plate XV.

—— (1836) Notes, etc. upon Diptera. *The Entomological Magazine* **4**: 147-152.

Haliday, A. H. (1836) British species of the dipterous Tribe Sphaeroceridae. *The Entomological Magazine* **3**: 315-336.

—— (1839) Remarks on the generic distribution of the British Hydromyzidae (Diptera). *Annals and Magazine of Natural History* **4**: 217-224, 401-411.

—— (1856) Notes on Irish Diptera. *The Natural History Review (Proceedings of Societies)* **3**: 73.

—— (1857) On some remaining blanks in the natural history of the native Diptera. *The Natural History Review (Proceedings of Societies)* **4**: 177-192.

—— (1857) Additional note on the metamorphosis of some species of Diptera, hitherto undescribed, or known but imperfectly. *The Natural History Review (Proceedings of Societies)* **4**: 192-196.

—— (1857) List of the genera and species of British Diptera, the earlier stages of which are more or less perfectly known, with references to the principal authorities. *The Natural History Review (Proceedings of Societies)* **4**: 180-192.

Hamerlík, L. (2006) Faunistic records of Chironomidae (Diptera) from the Morava River, new for Czech Republic. *Lauterbornia* **58**: 79-81. (*Kiefferulus tendipediformis*, *Saetheria reissi*)

Hancock, E. G. (1990) Some cranefly (Diptera: Tipulidae, Anisopodidae, Ptychopteridae) records from Kerry, Ireland, 1982. *Bulletin of the Irish Biogeographical Society* **13**: 137-140.

—— (2011) Additional records of *Actenoptera hilarella* (Zetterstedt) (Diptera, Piophilidae, Neottiophilinae) from Scotland, and notes on the J.J.F.X. King Collection. *Dipterists Digest* **18**: 1-3. (mention of King's Irish visits)

Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263.

Hannigan, E., Mangan, R. and Kelly-Quinn, M. (2011) Evaluation of the success of mountain blanket bog pool restoration in terms of aquatic macroinvertebrates. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 95-105.

Harding, P. T. (1981) A handlist of the papers of Denis R. Pack Beresford at the library of the Royal Irish Academy. *Ir. Nat. J.* **20**: 235-240. (Dipt., Hym., Lep., Orth., Siphon., Thysanura)

Harrington, R., Carroll, P., Carty, A. H., Keohane, J. and Ryder, C. (2007) Integrated Constructed Wetlands: concept, design, site evaluation and performance. *International Journal of Water* **3**: 243-256.

Harris, K. M. (2014) British species of *Arthrocnodax* (Diptera: Cecidomyiidae) recorded as predators in galls of eriophyoid mites. *Cecidology* **29**: 53-57.

Hart, W. E. (1900) Flowers and insects. *Ir. Nat.* **9**: 212. (Dipt., Lep.)

Harvey, M. (2012) Notice board: Diptera on iSpot. iSpot (www.ispot.org.uk). *Bulletin of the Dipterists Forum* **No. 73** (Spring): 5. (encourages people to learn about wildlife identification by enabling novices & experts to meet online)

Hatch, C., McCaughey, W. J. and O'Brien, J. J. (1976) The prevalence of *Gasterophilus intestinalis* and *G. nasalis* in Ireland. *Veterinary Record* **98**: 274-276.

Havelka, P. (1978) Ceratopogonidae. Pp 441-458. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Hayat, R., Ghahari, H., Lavigne, R. and Ostovan, H. (2008) Iranian Asilidae (Insecta: Diptera). *Turkish Journal of Zoology* **32**: 175-195. (*Neotamus cyanurus* (Loew), *Philonicus albiceps* (Meigen))

Hayes, B. P. and Murray, D. A. (1988) Diel variation in chironomid emergence and implications for the use of pupal exuviae in river classification. *Verh. Internat. Verein. Limnol.* **23**: 1261-1266.

—— (1989) Seasonal and yearly variation in chironomid emergence as determined by collections of pupal exuviae in a lowland river in Ireland. *Acta Biologica Debrecina Oecologica Hungarica* **2**: 229-235.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202.

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215.

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

Healy, B. (1997) Long-term changes in a brackish lagoon, Lady's Island Lake, South-East Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 33-51.

Healy, B., Bates, R. and McGrath, D. (1982) Marine fauna of County Wexford - 5. Lady's Island Lake. *Ir. Nat. J.* **20**: 510-526.

Healy, B. and McGrath, D. (1998) Marine fauna of County Wexford, Ireland: the fauna of rocky shores and sandy beaches. *Irish Fisheries Investigations New Series* **2**: 1-71.

Heaver, D. (1990) *Epistrophe ochrostoma*: new to Britain and Ireland. *Hoverfly Newsletter* **10**: 8. (see correction under Speight (2000))

Helden, A., Anderson, A. and Purvis, G. (2008) Arthropod biodiversity of agricultural grassland in south and east Ireland: Coleoptera. *Bulletin of the Irish Biogeographical Society* **32**: 172-200.

Heneghan, L. and Murray, D. A. (1987) Additions to the inventory of Irish Chironomidae (Diptera). *Ir. Nat. J.* **22**: 196-199.

Hennig, W. (1978) Muscidae. Pp 490-491. *In* Illies, J. (ed.) *Limnofauna Europaea*.

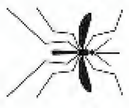
Henry, C. (2017) First Irish record of the cecidomyid gall midge *Dasineura harrisoni* (Bagnall) (Diptera: Cecidomyiidae). *Ir. Nat. J.* **35**: 130-131.

Herting, B. and Dely-Draskovits, A. (1993) Family Tachinidae. Pp 118-458. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **13**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Hewitt, T. R. (1914) (*Hypoderma bovis* larva). *Ir. Nat.* **23**: 252.

Hill, D. S. (1962) A study of the distribution and host preferences of three species of *Ornithomyia* (Diptera: Hippoboscidae) in the British Isles. *Proceedings of the Royal Entomological Society of London A* **37**: 37-48.

—— (1962) Revision of the British species of *Ornithomyia* Latreille (Diptera: Hippoboscidae). *Proceedings of the Royal Entomological Society of London B* **31**: 11-18.



Hippa, H., Vilkamaa, P. and Heller, K. (2010) Review of the Holarctic *Corynoptera* Winnertz, 1867, *s. str.* (Diptera, Sciaridae). *Zootaxa* **2695**: 1-197. (*C. perpusilla*, *C. subtilis*, *C. irmgardis*, *C. saetistyla*, *C. flavicauda*, *C. membranigera*, *C. subfurcifera*, *C. curvispinosa*, *C. minima*)

Hobby, B. M. (1930) The British species of Asilidae (Diptera) and their prey. *Transactions of the Entomological Society of the South of England* **6**: 1-42.

Hobby, B. M. and Smith, K. G. V. (1961) The bionomics of *Empis tessellata* F. (Dipt., Empididae). *Entomologist's mon. Mag.* **97**: 2-10.

Hope-Cawdery, M. J. and Lindsey, W. (1977) Observations on the decline of the snail *Lymnaea truncatula* L. and the liver fluke *Fasciola hepatica* L. on reclaimed western blanket peat and its possible relationship to predation by *Hydroma dorsalis* Fab. *Proceedings of a Seminar on Biological Control, Royal Irish Academy, Dublin 1977*: 161-169.

Howarth, B., Clee, C. and Edmunds, M. (2000) The mimicry between British Syrphidae (Diptera) and Aculeate Hymenoptera. *British Journal of Entomology and Natural History* **13**: 1-39.

Howe, M. A. and Howe, E. A. (2006) The current status and distribution of *Acrometopia wahlbergi* (Zetterstedt, 1846) (Diptera, Chamaemyiidae) in Britain. *Dipterists Digest* **13**: 169-172.

Huggins, H. C. (1953) *Tabanus tropicus* (L.) at Glengarriff, Co. Cork. (Dipt., Tabanidae). *Entomologist* **86**: 33.

Hume, H., Dunne, R. and O'Connor, J. P. (1990) *Liriomyza huidobrensis* (Blanchard) (Diptera: Agromyzidae), an imported pest new to Ireland. *Ir. Nat. J.* **23**: 325-326.

Hume, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Humphries, C. F. (1937) Neue *Trichocladius*-Arten. *Stettiner Entomologische Zeitung* **98**: 185-195.

—— (1951) Metamorphosis of the Chironomidae. II. A description of the imago, larva and pupa of *Trichocladius arduus* n. sp., Goetghebuer and of the larvae and pupa of *Trichocladius trifascia*, Edwards. *Hydrobiologia* **3**: 209-216.

Humphries, C. F. and Frost, W. E. (1937) River Liffey Survey. The chironomid fauna of the submerged mosses. *Proceedings of the Royal Irish Academy* **43**B: 161-182.

Huo, S. and Yang, D. (2011) Notes on *Chalarus* from China (Diptera, Pipunculidae). *Transactions of the American Entomological Society* **137**: 191-194.

Hürka, K. and Soós, A. (1986) Family Nycteribiidae. Pp 226-234. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **11**. Elsevier, Amsterdam/ Akadémiai Kiadó, Budapest.

Hutchison, M. (1974) The eradication of the Ox Warble Fly. *Agriculture in Northern Ireland* **48**: 308-310. (several papers on Warble-flies in *Pests)

Hutson, A. M. (1984) Keds, flat-flies and bat-flies. Diptera, Hippoboscidae and Nycteribiidae. *Handbooks for the Identification of British Insects* **10**(7): 1-40.

Hutson, A. M., Ackland, D. M. and Kidd, L. N. (1980) Mycetophilidae (Bolitophilinae, Ditomyiinae, Diadocidiinae, Keroplatinae, Sciophilinae and Manotinae) Diptera, Nematocera. *Handbooks for the Identification of British Insects* **9**(3): 1-111.

Hynes, T., Mc Donnell, R. J. and Gormally, M. J. (2014) Oviposition, adult longevity and temperature effects on the eggs of *Tetanocera elata* (Fab.) (Diptera: Sciomyzidae): a potential biocontrol agent for slugs. *Journal of Applied Entomology* **138**: 670-676.

Ilmonen, J., Adler, P. H., Malmqvist, B. and Cywinska, A. (2009), The *Simulium vernum* group (Diptera: Simuliidae) in Europe: multiple character sets for assessing species status. *Zoological Journal of the Linnean Society* **156**: 847-863.

Imms, A. D. (1902) Notes on the Genus *Clunio*, Hal. *Entomologist* **35**: 157-158.

Irish Biogeographical Society (2020) Anisopodidae and Thaumaleidae (Diptera: Nematocera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/2>

—— (2020) Craneflies of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/15>

—— (2020) Meniscus Midges (Dixidae) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/16>

—— (2020) Mosquitoes (Culicidae) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/ Dataset/68>

Irwin, A. G. (1974) Recent records of dung flies (Diptera, Scathophagidae) from Northern Ireland. *Ir. Nat. J.* **18**: 188-189.

—— (1976) *Cordilura rufimana* Mg. and *Nanna flavipes* (Fln.) (Diptera, Scathophagidae) new to Ireland. *Entomologist's mon. Mag.* **111** (1975): 32.

—— (1976) *Myopina myopina* Fallen (Diptera, Anthomyidae) in Ireland. *Entomologist's mon. Mag.* **111** (1975): 62.

—— (1976) *Calliphora uralensis* Villeneuve (Diptera, Calliphoridae) new to Ireland. *Entomologist's mon. Mag.* **111** (1975): 62.

—— (1976) *Lucilia ampullacea* Villeneuve (Dipt., Calliphoridae) new to Ireland. *Entomologist's mon. Mag.* **111** (1975): 113.

—— (1977) *Chrysops sepulcralis* F. (Dipt., Tabanidae) new to Ireland. *Entomologist's mon. Mag.* **112** (1976): 172.

—— (1985) British *Ochthera* (Diptera, Ephydridae). *Entomologist's mon. Mag.* **121**: 151-154.

Irwin, A. G. and Nash, R. (1973) Recent records of parasite flies (Diptera, Tachinidae) from Northern Ireland. *Ir. Nat. J.* **17**: 390-391.

Ismay, J. W. (1981) British *Meromyza* (Dipt., Chloropidae). *Entomologist's mon. Mag.* **116** (1980): 177-197.

—— (1981) Records of *Elachiptera pubescens* Thalhammer (Dipt., Chloropidae). *Entomologist's mon. Mag.* **117**: 58.

—— (1985) The identity of *Cetema elongata* (Meigen) (Dipt., Chloropidae). *Entomologist's mon. Mag.* **121**: 35-38.

—— (1999) The British and Irish genera of Chloropinae (Dipt., Chloropidae). *Entomologist's mon. Mag.* **135**: 1-37.

Ismay, J. W. (2000) The British species of *Lasiambia* Sabrosky (Diptera, Chloropidae). *Dipterists Digest* **7**: 59-70. (*L. palposa* (Fallén))

—— (2001) A new species of *Lasiosina* Becker (Diptera, Chloropidae) from Ireland. *Dipterists Digest* **8**: 49-52.

Ismay, J. W., Chandler, P. J., O'Connor, J. P. and Nash, R. (2001) Additions to the Irish list of Chloropidae (Diptera), with notes on the A. H. Haliday collection. *Dipterists Digest* **8**: 53-64.

Jackson, R. B. (1947) Records of a ceratopogonid and a culicid (Diptera) from Northern Ireland. *Entomologist's mon. Mag.* **83**: 141.

Jenkinson, F. (1908) Notes on certain Mycetophilidae, including several species new to the British List. *Entomologist's mon. Mag.* **44**: 151-154.

Jervis, M. A. (1992) A taxonomic revision of the pipunculid fly genus *Chalarus* Walker, with particular reference to the European fauna. *Zoological Journal of the Linnean Society* **105**: 243-352. (*C. argenteus* Coe, *C. exiguus* (Haliday), *C. latifrons* Hardy, *C. pughi* Coe, *C. spurius* Fallén)

Jess, S., Murchie, A. K. and Bingham, J. F. W. (2007) Potential sources of sciarid and phorid infestations and implications for centralised phases I and II mushroom compost production. *Crop Protection* **26**: 455-464.

Jess, S., Thompson, G. M., Clawson, S., Forsythe, I. W. N., Rea, I., Gordon, A. W. and Murchie, A. K. (2018) Surveillance of biting midges (*Culicoides* spp.) in Northern Ireland: influence of seasonality, surrounding habitat and livestock housing. *Medical and Veterinary Entomology* **32**: 48-60.

Jezek, J. and Yağci, Ş. (2005) Common non-biting moth flies (Insecta, Diptera, Psychodidae) new to the fauna of Turkey. *Türkiye Parazitoloji Dergisi* **29**: 188-192.

Johnson, M., O'Gorman, K., Gallagher, M., Clenaghan, C., Giller, P. S. and O'Halloran, J. (2001) The identification and amelioration of the impacts of clearfelling operations on lotic macroinvertebrates and salmonids in Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1565-1570.

Johnson, W. F. (1922) Diptera and Hymenoptera at Poyntzpass in 1921. *Ir. Nat.* **31**: 66-70.

Kane, W. F. de V. and Carpenter, G. H. (1894) (*Clunio marinus*). *Ir. Nat.* **3**: 140, 256, 259.

Kauri, H. (1978) Tabanidae. Pp 475-476. *In* Illies, J. (ed.) Limnofauna Europaea.

Kavanagh, J. A. and Harrison, S. S. C. (2014) The contribution of a drainage network to the spatial and temporal patterns of macroinvertebrate diversity across an agricultural headwater catchment. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 181-197.

Kazanci, N. and Ertunç, O. (2008) On the Simuliidae (Insecta, Diptera) fauna of Turkey. *Review of Hydrobiology* **1**: 27-36.

—— (2008) Checklist of the Simuliidae (Insecta, Diptera) of Turkey. *Review of Hydrobiology* **2**:129-144.

Kehlmaier, C. and Assmann, T. (2010) Molecular analysis meets morphology based systematics - a synthetic approach for Chalarinae (Insecta: Diptera: Pipunculidae). *Systematic Entomology* **35**: 181-195. (*Chalarus exiguus*)

Keiding, J. (1999) Review of the global status and recent development of insecticide resistance in field populations of the housefly *Musca domestica* (Diptera: Muscidae). *Bulletin of Entomological Research* **89**, Supplement 1, pp 7-67.

Keil, P., Dziock, F. and Storch, D. (2008) Geographical patterns of hoverfly (Diptera, Syrphidae) functional groups in Europe: inconsistency in environmental correlates and latitudinal trends. *Ecological Entomology* **33**: 748-757.

Kelly-Quinn, M. (1991) The diel feeding pattern of brown trout (*Salmo trutta* L.) in acid streams during the summer and autumn months. Pp 47-57. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Kelly-Quinn, M. and Bracken, J. J. (1988) A comparative study of two tributaries of the River Dodder - The Owendoher and the Dundrum Stream. *Irish Fisheries Investigations Series A* **No. 30**: 3-16.

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2002) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 119-124.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kennedy, T. F. (1996) The control of slug damage to seedling beet, in Ireland, with special reference to band placement of slug pellets. *BCPC Symposium Proceedings* **No. 66**: *Slugs and Snails in Agriculture* Pp 377-382. (Diptera: Tipulidae)

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

Khalaim, A. I. (2004) A review of the Palaearctic species of the genera *Barycnemis* Först., *Epistathmus* Först. and *Spinolochus* Horstm. (Hymenoptera: Ichneumonidae, Tersilochinae). *Proceedings of the Russian Entomological Society, St. Petersburg* **75**: 46-63.

Kibichii, S., Feeley, H. B., Baars, J.-R. and Kelly-Quinn, M. (2015) The influence of water quality on hyporheic invertebrate communities in agricultural catchments. *Marine and Freshwater Research* **66**: 805-814.
<http://dx.doi.org/10.1071/MF14214>

Kinahan, A. (1854) (*Discomyza incurva*). *The Natural History Review* **I**: 157.

King, J. J. F. X. (1900) A few localities for certain Psychodidae collected in England (Wicken Fen, Chippenham Fen), Scotland (Aviemore and Guisachan, Inverness-shire), and Ireland (Kilmacrenan, Donegal). *Entomologist's mon. Mag.* **36**: 135-136.

Kjærandsen, J., Hedmark, K., Kurina, O., Polevoi, A., Økland, B. and Götmark, F. (2007) Annotated checklist of fungus gnats from Sweden (Diptera: Bolitophilidae, Diadocidiidae, Ditomyiidae, Keroplatidae and Mycetophilidae). *Insect Systematics & Evolution*. Supplement **No. 65**.

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235.

Knutson, L. (1988) Life cycles of snail-killing flies: *Pherbellia griseicollis*, *Sciomyza dryomyzina*, *S. simplex*, and *S. testacea* (Diptera: Sciomyzidae). *Entomological Scandinavica* **18**: 383-391. (*S. dryomyzina* Zetterstedt)

Knutson, L. V. (1966) Biology and immature stages of malacophagous flies: *Antichaeta analis*, *A. atriseta*, *A. brevipalpis* and *A. obliviosa* (Diptera, Sciomyzidae). *The Transactions of the American Entomological Association* **92**: 67-101.

—— (1973) Biology and immature stages of *Coremacera marginata* F. a predator of terrestrial snails (Dipt. Sciomyzidae). *Entomologica Scandinavica* **4**: 123-133.

—— (1978) Sciomyzidae. Pp 485-488. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Knutson, L. V. and Berg, C. O. (1963) Biology and immature stages of a snail-killing fly, *Hydromya dorsalis* (Fabricius) (Diptera: Sciomyzidae). *Proceedings of the Royal Entomological Society of London A* **38**: 45-58.

—— (1967) Biology and immature stages of malacophagous Diptera of the genus *Knutsonia* Verbeke (Sciomyzidae). *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique* **1967**: 1-60.

Komzáková, O. and Barták, M. (2009) The family Anthomyiidae (Diptera) of the Bohemian Forest. *Silva Gabreta* **15**: 205-210. (*Chirosia betuleti*)

Kovalev, V. G. and Morge, G. (1984) Family Lonchaeidae. Pp 247-259. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Kramer, J. (2014) Distribution maps for species discussed in Cranefly News 28, Autumn 2014. Cranefly News pp 11-12. *Bulletin of the Dipterists Forum* **No. 78** (Autumn). (*Molophilus bihamatus*)

—— (2015) A review of the genus *Paradelphomyia* Alexander (Diptera, Limoniidae) in Britain. *Dipterists Digest* **22**: 43-57. (*Paradelphomyia senilis* (Haliday. 1833))

Krivosheina, N. P. (1986) Family Bibionidae. Pp 319-330. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **4**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1988) Family Diadocidiidae. Pp 210-211. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Krivosheina, N. P. and Haenni, J.-P. (1986) Family Scatopsidae. Pp 297-310. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **4**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Krivosheina, N. P. and Mamaev, B. M. (1988) Family Keroplatidae. Pp 199-210. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1988) Family Macroceridae. Pp 212-217. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Kutuk, M. (2008) The fruit fly (Diptera: Tephritidae) fauna of Kayseri and Sivas Provinces with a new record for Turkey. *Turkish Journal of Zoology* **32**: 271-285. (*Urophora jaceana*)

Langton, P. H. (2002) A preliminary survey of the non-biting midges (Diptera: Chironomidae) of Northern Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 14-28.

Langton, P. H. (2004) Additions to the Irish list of Chironomidae (Diptera), including the first species of the millennium new to the British Isles. *Dipterists Digest* **10**: 131-134.

—— (2004) Pink *Chironomus* exuviae! *Chironomus. Newsletter on Chironomidae Research* **No. 17**: 8.

—— (2005) Six species of Diptera new to Ireland. *Dipterists Digest* **12**: 6. (Cecidomyiidae, Chironomidae, Sphaeroceridae, Tipulidae)

—— (2012) Records of species of fly (Diptera) for Ireland including two new to the Irish list. *Dipterists Digest* **19**: 142.

—— (2012) *Smittia amoena* Caspers (Diptera, Chironomidae) new to Ireland. *Dipterists Digest* **19**: 142.

—— (2013) *Bryophaenocladius muscicola* (Kieffer) and *Chaetocladius suecicus* (Kieffer) (Diptera, Chironomidae) new to Ireland. *Dipterists Digest* **20**: 16.

—— (2013) *Thienemannimyia fusciceps* (Edwards) (Diptera, Chironomidae) new to Ireland. *Dipterists Digest* **20**: 160.

—— (2013) A new species of *Metriocnemus* van der Wulp (Diptera, Chironomidae) from Northern Ireland. *Dipterists Digest* **20**: 181-185.

—— (2015) *Metriocnemus* (*Inermipupa*) *carmencitabertarum* Langton and Cobo (Diptera, Chironomidae) now in Northern Ireland. *Dipterists Digest* **22**: 10.

—— (2015) *Telmatogeton murrayi* Sæther (Diptera, Chironomidae) new to Ireland. *Dipterists Digest* **22**: 16.

—— (2015) The genus *Gymnometriocnemus* (Diptera, Chironomidae) in Northern Ireland. *Dipterists Digest* **22**: 28.

—— (2015) *Metriocnemus ephemerus* sp. nov. (Diptera, Chironomidae) from Northern Ireland. *Dipterists Digest* **22**: 35-42.

—— (2015) *Thaumalea truncata* Edwards (Diptera, Thaumaleidae) new to Ireland. *Dipterists Digest* **22**: 57.

—— (2015) Corrections to: Langton, P.H. 2015. *Metriocnemus ephemerus* sp. nov. (Diptera, Chironomidae) from Northern Ireland. Dipterists Digest (Second Series) 22, 35-42. *Dipterists Digest* **22**: 313-216.

—— (2016) *Paraphaenocladius exagitans* (Johannsen) ssp. *monticola* Strenzke in Northern Ireland. *Dipterists Digest* **23**: 162.

—— (2016) The second record of *Metriocnemus inopinatus* Strenzke (Diptera, Chironomidae) for Ireland, the first for Northern Ireland. *Dipterists Digest* **23**: 183.

—— (2018) *Metriocnemis* (*Inermipupa*) *carmencitabertarum* Langton and Cobo (Diptera, Chironomidae) now well established in Northern Ireland. *Dipterists Digest* **25**: 19-20.

—— (2018) *Metriocnemus* (*Metriocnemus*) *alisonae* Langton (Diptera, Chironomidae) new to Britain. *Dipterists Digest* **25**: 64.

—— (2019) So it has to be *Brillia longifurca* (Diptera, Chironomidae)...at least for the time being... *Dipterists Digest* **25** (2018): 185-187.

—— (2020) A passion for Chironomidae. *CHIRONOMUS Journal of Chironomidae Research* **33**: 2-3. (bibliographic)

Langton, P. H. and McLarnon, L. A. (1997) *Monodiamesa ekmani* Brundin (Diptera: Chironomidae), confirmed new to Britain and Ireland. *British Journal of Entomology and Natural History* **10**: 196-202.

Langton, P. H. and Murray, D. A. (2019) The pupa of *Metriocnemus* (*Metriocnemus*) *ephemerus* Langton (Diptera, Chironomidae). *Dipterists Digest* **25** (2018): 188-192.

Langton. P. H. and Pinder, L. C. V. (2007) Keys to the adult male Chironomidae of Britain and Ireland. *Scientific Publications of the Freshwater Biological Association* **No. 64** (Volumes 1 and 2).

Langton, P. H. and Ruse, L. P. (2006) Further species of Chironomidae (Diptera) new to the British Isles and data for species newly recorded in the 1998 checklist. *Dipterists Digest* **12** (2005): 135-140. (*Limnophyes spinigus*)

—— (2018) *Nanocladius* (*Nanocladius*) *distinctus* (Malloch) (Diptera, Chironomidae) new to Britain and Ireland. *Dipterists Digest* **25**: 17-19.

Langham, C. (1922) *Gonia fasciata* in Fermanagh. *Ir. Nat.* **31**: 32.

Lansbury, I. (1965) Notes on the Hemiptera, Coleoptera, Diptera and other invertebrates of the Burren, Co. Clare and Inishmore, Aran Islands. *Proceedings of the Royal Irish Academy* **64**B: 89-116.

Laurence, B. R. and James, R. (1996) *Corynoptera stammeri* (Lengersdorf) (Sciaridae) and *Colobostema infumatum* (Haliday) (Scatopsidae) from Wales: new to the British list of Diptera. *Entomologist's mon. Mag.* **132**: 73-75.

Lavery, T. A. (1991) A note on *Empis* (*Platyptera*) *borealis* Linn. (Diptera: Empididae). *Bulletin of the Amateur Entomologists' Society* **50**: 260-262.

—— (1992) Some interesting insects from Killarney National Park, Co. Kerry. *Bulletin of the Amateur Entomologists' Society* **51**: 239-240.

Lavery, T. A., Speight, M. C. D. and Blackith, R. M. (1993) Records of some Irish dance flies, including eleven species new to Ireland and a checklist of the Irish fauna (Diptera: Empididae, Hybotidae, Microphoridae). *Ir. Nat. J.* **24**: 204-212.

Lawton, J. H. and Price, P. W. (1979) Species richness of parasites on hosts: agromyzid flies on the British Umbelliferae. *Journal of Animal Ecology* **48**: 619-637.

Leonhardt, K. G. and Feraday, R. M. (1989) Sex chromosome evolution and population differentiation in the *Eusimulim aureum* group of black flies. *Canadian Journal of Zoology* **32**: 543-549.

Lindsay, W., McDonnell, R. J., Williams, C. D., Knutson, L. and Gormally, M. J. (2010) Biology of the snail-killing fly *Ilione albiseta* (Scopoli, 1763) (Diptera: Sciomyzidae). *Studia Dipterologia* **16**: 245-307.

Linton, Y.-M., Lee, A. S. and Curtis, C. (2005) Discovery of a third member of the Maculipennis Group in SW England. *European Mosquito Bulletin* **19**: 5-9. (*An. messeae* confirmed in Ireland)

Linton, Y.-M., Smith, L., Koliopoulos, G., Samanidou-Voyadjoglou, A., Zounos, A. K. and Harbach, R. E. (2003) Morphological and molecular characterization of *Anopheles* (*Anopheles*) *maculipennis* Meigen, type species of the genus and nominotypical member of the *maculipennis* complex. *Systematic Entomology* **28**: 39-55. (absence in Ireland noted)

Little, D. and Bolger, T. (1995) The effects of contrasting land uses on soil properties and animal communities in brown earth soils. *Biology and Environment: Proceedings of the Royal Irish Academy* **95**B: 183-193.

Love, D. E. (1976) The activities of various Diptera at the stinkhorn *Phallus impudicus* Pers. *Ir. Nat. J.* **18**: 301-303.

Low, A. M. (1935) Records of various Diptera captured between 1929 and 1935. *Entomologist's mon. Mag.* **71**: 279-280.

Lucey, J. (1991) Invertebrates as pollution indicators in Irish rivers. Pp 135-150. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Lucy, F., Costello, M. J. and Giller, P. S. (1990) Diet of *Dinocras cephalotes* and *Perla bipunctata* (Plecoptera, Perlidae) in a south-west Irish stream. *Aquatic Insects* **12**: 199-207.

Lyneborg, L. (1989) Family Therevidae. Pp 11-35. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **6**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

M'Weeny, E. J. (1893) (Fungus on *Polietes lardaria*). *Ir. Nat.* **2**: 146.

MacGowan, I. and Freidberg, A. (2008) The Lonchaeidae (Diptera) of Israel, with descriptions of three new species. *Israel Journal of Entomology* **38**: 61-92. (*Dasiops mucronatus*, *Lonchaea tarsata*)

MacGowan, I. and Rotheray, G. (2008) British Lonchaeidae. Diptera Cyclorrhapha, Acalyptratae. *Handbooks for the Identification of British Insects* **10**(15): 159pp.

Magurran, A. (1976) A study of fungal infection in the dung fly, *Scathophaga stercoraria* L. (Diptera, Scathophagidae). *Ir. Nat. J.* **18**: 300-301.

Maher, C., Gormally, M., Williams, C. and Sheehy Skeffington, M. (2014) Atlantic floodplain meadows: influence of hydrological gradients and management on sciomyzid (Diptera) assemblages. *Journal of Insect Conservation* **18**: 267-282.

Maher, C. A., Carey, J. G. J., Mulkeen, C. J., Williams, C. D., Knutson, L. V., Healy, M. G., and Gormally, M. J. (2018). Diagnostic definitions and figures of male and female *Tetanocera punctifrons* and *T. latifibula*, new records of *T. punctifrons* in Ireland, and notes on biology (Diptera, Sciomyzidae). *Dipterists Digest* **24** (2017): 129-145.

Maki, A. M. (2010) Aquatic macroinvertebrate biodiversity of an Irish constructed wetland system, two years after construction. *Bulletin of the Irish Biogeographical Society* **34**: 128-138.

Makings, P. (1958) *Empis* (*Pachymeria*) *tessellata* F., (Dipt., Empididae), preying on *Haematopota pluvialis* (L.) in West Cork. *Entomologist's mon. Mag.* **94**: 142.

—— (1961) *Himacerus mirmicoides* (Costa) in Cork city. *Ir. Nat. J.* **13**: 268-270. (*Aedes detritus*)

—— (1961) Males of *Aedes detritus* Haliday abundant on flowers of ragwort in Cork, and notes on some predators of the mosquito. *Ir. Nat. J.* **13**: 272-273.

Malone, E. (1927) Irish gall midges. 1. (Cecidomyidae). *Entomologist's mon. Mag.* **63**: 135-136.

—— (1928) Plant Galls. *Ir. Nat. J.* **2**: 59-61.

—— (1929) Recent additions to the Irish Fauna and Flora, Diptera. *Proceedings of the Royal Irish Academy* **39**B: 15-17.

Mamaev, B. M. and Krivosheina, N. P. (1988) Family Ditomyiidae. Pp 197-199. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Manger, R. and Marten, A. (2013) First records of *Forcipomyia paludis* (Diptera: Ceratopogonidae), an ectoparasite of dragonfly adults, in The Netherlands. *Entomologische Berichten* **73**: 182-184. (Ireland)

Mantell, A. and Anderson, R. (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.

Marcos-García, M. A., Vujić, A. and Mengual, X. (2007) Revision of Iberian species of the genus *Merodon* (Diptera: Syrphidae). *European Journal of Entomology* **104**: 531-572. (*Merodon equestris*)

Marks, R. J. and Henderson, A. E. (1970) An examination of the larval Chironomidae (Diptera, Nematocera) in Lennymore Bay, Lough Neagh. *Ir. Nat. J.* **16**: 328-334.

Marshall, J. F. (1938) *The British Mosquitoes.* British Museum (Natural History), London.

Martin, R., Oxbrough, A., Gittings, T., Kelly, T. C. and O'Halloran, J. (2010) New records and rare invertebrate specimens recorded during a decade of forest biodiversity research in Ireland. *Antenna* **34**: 11-118.

Martinovsky, J. and Rozkosny, R. (1988) Family Thaumaleidae. Pp 186-192. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Marziali, L., Casalegno, C. and Rossaro, B. (2004) The first record of the subfamily Buchonomyiinae (Diptera, Chironomidae) from Italy. *Italian Journal of Zoology* **71**: 341-345.

Mathis, W. N. (1982) Canacidae of Israel, with a review of the Palaearctic species of the Genus *Canace* Haliday (Diptera). *Entomological Scandinavica* **13**: 57-66.

Mathis, W. N., Zatwarnicki, T. and Kubátová-Hiršová, H. (2009) A revision of the shore-fly genus *Philotelma* Becker (Diptera: Ephydridae). *Insect Systematics & Evolution* **40**: 121-158.

McCarthy, T. K., Barbiero, R. P., King, J., Doherty, D., O'Connor, B. and Cullen, P. (2000) Water quality monitoring in some larger western Irish lakes. *Verh. Internat. Verein. Limnol.* **27**: 1816-1821. (Diptera: *Corynocera ambigua*)

McCloskey, J. M. (1957) A case of human infestation by the Ox-warble Fly (*Hypoderma lineatum*). *The Journal of the Irish Medical Association* **41**: 121-122.

McCracken, A. R. and Blackshaw, R. P. (1993) The protection of the Northern Ireland nursery stock industry from harmful organisms. Pp 55-66. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Mc Donnell, R. J. and Gormally, M. J. (2007) Thermal effects on the egg stage of four sciomyzids with reference to phenology and biocontrol potential. *Journal of Applied Entomology* **131**: 65-70.

Mc Donnell, R. J., Gormally, M. J. and Knutson, L. (2003) A second record of *Renocera stroblii* Hendel (Diptera: Sciomyzidae) in Ireland with a key to the Irish species of the genus. *Ir. Nat. J.* **27**: 232-233.

Mc Donnell, R. J., Gormally, M. J. and Knutson, L. V. (2004) *Galba truncatula* (Müller), the liver fluke snail: confirmed as alternate host of *Pherbellia schoenherri schoenherri* (Fallén) (Diptera, Sciomyzidae) in the wild. *Dipterists Digest* **10**: 69-71.

Mc Donnell, R. J., Knutson, L., Vala, J.-C., Abercrombie, J., Henry, P.-Y. and Gormally, M. J. (2005) Direct evidence of predation by aquatic, predatory Sciomyzidae (Diptera, Acalyptrata) on freshwater snails from natural populations. *Entomologist's mon. Mag.* **141**: 49-56.

Mc Donnell, R. J., Mulkeen, C. J. and Gormally, M. J. (2005) Sexual dimorphism and the impact of temperature on the pupal and adult stages of *Sepedon spinipes spinipes* (Scopoli) (Diptera: Sciomyzidae), a potential biological control agent of liver fluke disease. *Entomologia Experimentalis et Applicata* **115**: 291-301.

Mc Donnell, R. J., Williams, C. D., Shine, O., Knutson, L. and Gormally, M. J. (2010) Faunistics data for Sciomyzidae (Diptera) in the west of Ireland with distribution maps, species accounts and comments on community structure. *Bulletin of the Irish Biogeographical Society* **34**: 150-218.

McGarrigle, M. L. (1980) The distribution of chironomid communities and controlling sediment parameters in L. Derravaragh, Ireland. Pp 275-282. *In* Murray, D. A. (ed.) *Chironomidae: ecology, systematics, cytology and physiology*. Pergamon, Oxford.

McKeown, M. and Potito, A. P. (2016) Assessing recent climatic and human influences on chironomid communities from two moderately impacted lakes in western Ireland. *Hydrobiologia* **765**: 245-263. <https://doi.org/10.1007/s10750-015-2418-7>

McLarnon, L. A. and Carter, C. E. (2000) Chironomidae in Lough Neagh, Northern Ireland. *Verh. Internat. Verein. Limnol*. **27**: 2383-2387.

McLean, I. (2010) Some recent publications on Sciomyzidae. Pp 1-2. *In Bulletin of the Dipterists Forum* **No. 69** (Spring 2010).

McMahon, E. (1954) Investigations on the hatching of the eggs of the Lemon Wheat Blossom Midge. *Scientific Proceedings of the Royal Dublin Society New Series* **26**: 339-345.

—— (1962) Wheat Blossom midge investigations. *Scientific Proceedings of the Royal Dublin Society Ser B* **1**: 47-57. (Other Diptera papers in *Pests)

Meade, R. H. (1899) A descriptive list of the British Cordyluridae. *Entomologist's mon. Mag.* **35**: 167-177, 217-224.

Medlock, J. M., Snow, K. R. and Leach, S. (2005) Potential transmission of West Nile virus in the British Isles: an ecological review of candidate mosquito bridge vectors. *Medical and Veterinary Entomology* **19**: 2-21.

Mendl, H. (1978) Limoniidae. Pp 367-377. *In* Illies, J. (ed.) *Limnofauna Europaea.*

—— (1987) Stelzmücken-Fänge aus Irland (Diptera Nematocera: Limoniidae). Ein Beitrag zur Limoniiden-Fauna der Republik Irland. *Spixiana* **10**: 209-223.

Menzel, F. and Mohrig, W. (1997) Revision der paläarktischen Arten von *Trichosia* Winnertz *sensu* Tuomikoski, 1960 (Diptera, Sciaridae). - Teil I. Gattung *Trichosia* Winnertz, 1867. *Studia Dipterologica* **4**: 3-40. (*T. splendens*)

Menzel, F., Smith, J. E. and Chandler, P. J. (2006) The sciarid fauna of the British Isles (Diptera: Sciaridae), including descriptions of six new species. *Zoological Journal of the Linnean Society* **146**: 1-147.

Merne, O. J. (2004) Swallows *Hirundo rustica* feeding on dipteran flies on tree trunks on Lambay Island, County Dublin. *Irish Birds* **7**: 437-438.

Merz, B. (2001) Two new species of *Lauxania* Latreille s. str. (Diptera, Lauxaniidae) from Southern Europe. *Revue Suisse de Zoologie* **108**: 441-453. (*L. cylindricornis*)

Merz, B. (2009) Two new species of the *Sapromyza obsoleta* Fallén species group (Diptera, Lauxaniidae). *Revue Suisse de Zoologie* **116**: 203-222.

Miles, P. M. (1968) *Sarcophaga nigriventris* Mg. (Dipt., Calliphoridae) bred from *Helix aspersa* Muller (Mollusca, Helicidae). *Entomologist's mon. Mag.* **104**: 227.

Millar, R. (1967) The avifauna of the East Twin, Belfast Harbour and some natural history notes. *Ir. Nat. J.* **15**: 258-266. (*Culex*)

Minár, J. (1990) Family Culicidae. Pp 74-113. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **2**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Mitchell, R. (2018) *Themira gracilis* (Zetterstedt) (Diptera, Sepsidae) new to Ireland. *Dipterists Digest* **25**: 78.

—— (2019) *Norellia spinipes* (Meigen) (Diptera, Scathophagidae) new to Ireland. *Ir. Nat. J.* **36**: 150-151.

—— (2019) *Carcelia puberula* (Mesnil) (Diptera, Tachinidae) new to Ireland. *Dipterists Digest* **26**: 4.

—— (2020) Conopidae of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/276>

Moffat, C. B. (1905) The duration of flight among bats. *Ir. Nat.* **14**: 97-108. (only definite fly: *Scatophaga stercoraria*)

—— (1922) The habits of the long-eared bat. *Ir. Nat.* **31**: 105-111. (*Tipula gigantea*)

—— (1931) The long-eared bat. *Ir. Nat. J.* **3**: 182-185. (*Tipula gigantea*)

—— (1941) Troubles of *Tipula gigantea*. *Ir. Nat. J.* **7**: 310-311.

Mohrig, W. and Menzel, F. (1997) Revision der paläarktischen Arten von *Trichosia* Winnertz *sensu* Tuomikoski, 1960 (Diptera, Sciaridae). - Teil II. Gattungen *Leptosciarella* Tuomikoski, 1960 und *Trichodapus* gen. nov. *Studia Dipterologica* **4**: 41-98. (*Leptosciarella trochanterata*, *L. melanoma*, *L. yerburyi*)

Morgan, D. and Murray, D. A. (1988) Five Chironomidae (Diptera) new to Ireland. *Bulletin of the Irish Biogeographical Society* **11**: 95-99.

Morley, C. (1918) On *Agathomyia collini*, Verr., and other platypezid Diptera. *Entomologist* **51**: 88-90.

—— (1920) Collecting fungus-gnats. *Entomologist* **53**: 83-89.

Morris, H. M. (1921-22) The larval and pupal stages of the Bibionidae. *Bulletin of Entomological Research* **12**: 221-232.

Mowat, D. J. (1974) Factors affecting the abundance of Shoot-flies (Diptera) in grassland. *Journal of Applied Ecology* **11**: 951-962.

—— (1975) The dipterous Shoot-flies inhabiting grassland in Northern Ireland. *Records of Agricultural Research of the Department of Agriculture, Northern Ireland* **23**: 11-17.

Mowat, D. J. and Martin, S. J. (1982) Cabbage root fly - a serious pest of brassicas. *Agriculture in Northern Ireland* **56**: 372-375.

Mullen, K., Fahy, O. and Gormally, M. (2003) Ground flora and associated arthropod communities of forest road edges in Connemara, Ireland. *Biodiversity and Conservation* **12**: 87-101.

Mullin, J., Fox, D. and Brady, J. J. (1952) Wheat midge. *Nature* **169**: 629.

Munari, L. and Mathis, W. N. (2010) World catalog of the Family Canacidae (including Tethinidae) (Diptera), with keys to the supraspecific taxa. *Zootaxa* **2471**: 1-84. (*Canace nasica*, *C. ranula*, *Pelomyiella cinerella*, *Tethina illota*)

Murchie, A. K. (2009) Meeting report. The 2008 Northern Irish Regional. *Antenna* **33**: 96-97. (Diptera: bluetongue virus)

—— (2009) Entography. *Antenna* **34**: 48. (chironomids swarming)

Murchie, A. K. and Hume, K. D. (2003) Evidence for monogeny in the brassica pod midge *Dasineura brassicae*. *Entomologia Experimentalis et Applicata* **107**: 237-241.

Murray, D. A. (1972) A list of the Chironomidae (Diptera) known to occur in Ireland with notes on their distribution. *Proceedings of the Royal Irish Academy* **72**B: 275-293.

—— (1973) Recent research on the Chironomidae in the Republic of Ireland. *CHIRONOMUS* **1**: 100-101.

—— (1974) Notes on some Chironomidae from the Killarney area, Ireland. *Entomologisk tidskrift* **95**, Supplement 177-181.

—— (1976) *Buchonomyia thienemanni* Fittkau (Diptera, Chironomidae), a rare and unusual species recorded from Killarney, Ireland. *Entomologist's Gazette* **27**: 179-180.

—— (1976) *Thienemannimyia pseudocarnea* n.sp., a Palaearctic species of the Tanypodinae (Diptera: Chironomidae). *Entomologica Scandinavica* **7**: 191-194.

—— (1996) Records of Chironomidae (Diptera) in Ireland: twenty - nine species new to the Irish fauna. *Bulletin of the Irish Biogeographical Society* **19**: 195-201.

—— (1998) Palaeolimnology in Irish lakes. Pp 19-38. *In* Giller, P. S (ed.) *Studies in Irish Limnology.* The Marine Institute, Dublin.

—— (1999) Went Memorial Lecture 1999. Lakes in the landscape - midges, microfossils, sediments and man. Pp 1-17. *Occasional papers in Irish science and technology*. Royal Dublin Society.

—— (2000) First record of *Telmatogeton japonicus* Tokunaga (Dipt., Chironomidae) from the British Isles and additional records of halobiontic Chironomidae from Ireland. *Entomologist's mon. Mag.* **136**: 157-159.

—— (2000) Biodiversity assessment and the Irish Chironomidae (Diptera: Insecta). Pp 47-58. *In* Rushton, B. S. (ed.) *Biodiversity: the Irish dimension*. Royal Irish Academy, Dublin.

—— (2007) *Limnophyes platystylus* n. sp. (Diptera: Chironomidae, Orthocladiinae) from Ireland. Pp 215-218. *In* Andersen, T. (ed.) *Contributions to the systematics and ecology of aquatic Diptera - a tribute to Ole Sæther.* Caddis Press, Columbus, Ohio.

—— (2010) Records of Chironomidae (Diptera) in Ireland - twenty additions and notes on four morphotypes. *Bulletin of the Irish Biogeographical Society* **34**: 85-96.

—— (2012) First record for Ireland of *Metriocnemus* (*Inermipupa*) *carmencitabertarum* Langton and Cobo, 1997 (Diptera: Chironomidae, Orthocladiinae). *Bulletin of the Irish Biogeographical Society* **36**: 3-7.

—— (2012) Four Chironomidae (Diptera) new to Ireland in the Subfamilies Orthocladiinae and Chironominae and a new site record for *Parochlus kiefferi* (Garrett, 1925) (Podonominae). *Bulletin of the Irish Biogeographical Society* **36**: 8-14.

—— (2012) Records of the pupal morphotype *Macropelopia* spec. Norwegen, *sensu* Fittkau 1962 (Diptera, Chironomidae), from Ireland and Iceland. *Dipterists Digest* **19**: 157-160.

Murray, D. A. (2013) Supplementary records of *Metriocnemus* (*Inermipupa*) *carmencitabertarum* Langton and Cobo, 1997 (Diptera: Chironomidae) in Ireland with some observations on larval behaviour. *Bulletin of the Irish Biogeographical Society* **37**: 204-207.

—— (2015) Lost and found in Ireland; how a data label resulted in a postal delivery to *Metriocnemus* (*Inermipupa*) *carmencitabertarum* (Orthocladiinae). *CHIRONOMUS Journal of Chironomidae Research* **No. 28**: 57-59.

—— (2015) *Glyptotendipes* (*Heynotendipes*) *signatus* (Kieffer) and *Harnischia fuscimanus* Kieffer (Diptera, Chironomidae) new to Ireland. *Dipterists Digest* **22**: 16.

—— (2015) Records of Chironomidae (Diptera) from County Meath including *Rheotanytarsus reissi* Lehmann, 1970 (Tanytarsini) new to Ireland. *Bulletin of the Irish Biogeographical Society* **39**: 3-6.

—— (2016) An annotated inventory of the Chironomidae (Insecta: Diptera) of County Meath, Ireland. *Bulletin of the Irish Biogeographical Society* **40**: 18-42.

—— (2016) Records of some freshwater and halobiontic Chironomidae (Insecta: Diptera) from County Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **40**: 125-130.

—— (2016) A new record of *Metriocnemus* (*Inermipupa*) *carmencitabertarum* (Orthocladiinae) from England. *CHIRONOMUS Journal of Chironomidae Research* **29**: 43-44.

—— (2016) A record of *Baeotendipes noctivagus* (Kieffer) (Diptera, Chironomidae) from Ireland - new to the British Isles. *Dipterists Digest* **23**: 162.

—— (2017) Some Chironomidae (Insecta, Diptera) from south east Ireland - new and additional records for County Wexford and hydrometric areas 11 and 12. *Bulletin of the Irish Biogeographical Society* **41**: 22-32.

—— (2017) The Chironomidae (Insecta, Diptera) of Achill Island, County Mayo - new records and checklist. *Bulletin of the Irish Biogeographical Society* **41**: 90-102.

—— (2018) A second record in Ireland of *Metriocnemis ephemerus* Langton (Diptera, Chironomidae). *Dipterists Digest* **24** (2017): 155.

—— (2018) Further distribution records of Chironomidae (Insecta: Diptera) in Ireland from past collections. *Bulletin of the Irish Biogeographical Society* **42**: 58-74.

—— (2019) New county and hydrometric area records of Chironomidae (Insecta: Diptera) in Ireland from recent and past collections. *Bulletin of the Irish Biogeographical Society* **43**: 19-27.

—— (2019) Records and a checklist of Chironomidae (Insecta: Diptera) in County Louth and an updated summary of species distribution in Ireland. *Bulletin of the Irish Biogeographical Society* **43**: 42-56.

—— (2020) Additional records of Chironomidae (Insecta: Diptera) in Ireland with new records from Counties Longford, Mayo and Meath. *Bulletin of the Irish Biogeographical Society* **44**: 124-137.

Murray, D. A. and Ashe, P. (1981) A description of the pupa of *Buchonomyia thienemanni* Fittkau, with notes on its ecology and on the phylogenic position of the subfamily Buchonomyiinae (Diptera, Chironomidae). *Spixiana* **4**: 55-68.

—— (1981) A description of the larva and pupa of *Eurycnemus crassipes* (Panzer) (Diptera: Chironomidae). *Entomological Scandinavica* **12**: 357-361.

Murray, D. A. and Ashe, P. (1982) First records of the subfamilies Podonominae and Telmatogetoninae (Diptera: Chironomidae) from Ireland. *Ir. Nat. J.* **20**: 546-547.

—— (1984) An inventory of Irish Chironomidae (Diptera). *Memoirs of the American Entomological Society* **34**: 223-233.

—— (1985) (1986) A description of the adult female of *Buchonomyia thienemanni* Fittkau and a reassessment of the phylogenic position of the subfamily Buchonomyiinae (Diptera, Chironomidae). *Spixiana Supplement* **11**: 149-160.

Murray, D. A. and Ashe, P. J. (2017) Additional distribution records of Chironomidae (Insecta: Diptera) in Ireland from recent and past collections. *Bulletin of the Irish Biogeographical Society* **41**: 112-129.

Murray, D. A. and Baars, J.-R. (2006) *Parapsectra uliginosa* Reiss, 1969 (Diptera, Chironomidae) new to Ireland and association of exuviae of *Procladius* Pe1 (*sensu* Langton) with *P. simplicistilus* Freeman, 1948. *Dipterists Digest* **13**: 166-168.

—— (2006) Four Chironomidae (Diptera, Insecta) new to Ireland from remote upland lakes. *Bulletin of the Irish Biogeographical Society* **30**: 298-301.

Murray, D. A. and Fittkau, E. J. (1986) *Hayesomyia* n. gen., a new genus of Tanypodinae from the Holarctic (Diptera, Chironomidae). *Spixiana Supplement* **11**: 195-207.

Murray, D. A. and Langton, P. H. (2018) Doubt and certainty in records of *Micropsecta recurvata* Goetghebuer (Insecta: Diptera: Chironomidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **42**: 155-158.

Murray, D. A., Langton, P. H., O'Connor, J. P. and Ashe, P. (2014) Distribution records of Irish Chironomidae (Diptera): part 2 - Orthocladiinae. *Bulletin of the Irish Biogeographical Society* **38**: 61-246.

—— (2015) Distribution records of Irish Chironomidae (Diptera): part 3 - Chironominae. *Bulletin of the Irish Biogeographical Society* **39**: 7-192.

Murray, D. A., Langton, P. H., O'Connor, J. P. and Ashe, P. J. (2013) Distribution records of Irish Chironomidae (Diptera): Part 1 - Buchonomyiinae, Podonominae, Tanypodinae, Telmatogetoninae, Diamesinae and Prodiamesinae. *Bulletin of the Irish Biogeographical Society* **37**: 208-336.

—— (2017) Corrections of grid reference for three sites in distribution records of Irish Chironomidae (Diptera), parts 1-3. *Bulletin of the Irish Biogeographical Society* **41**: 130-133.

Murray, D. A. and Murray, W. A. (2003) A reassessment of Chironomidae (Diptera) of Clare Island, Co. Mayo, with first records of *Acamptocladius reissi* Cranston and Saether and *Limnophyes angelicae* Saether (Orthocladiinae) for the Irish faunal checklist. *Bulletin of the Irish Biogeographical Society* **27**: 255-269.

—— (2006) Notes on six Chironomidae (Diptera, Insecta) new to Ireland from Co. Mayo. *Bulletin of the Irish Biogeographical Society* **30**: 293-297.

Murray, D. A. and O'Connor, J. P. (1982) *Microchironomus deribae* (Freeman) (Dipt. Chironomidae): a fuel contaminant in an Irish helicopter. *Entomologist's mon. Mag.* **118**: 44.

—— (2012) *Rheotanytarsus rioensis* Langton & Armitage (Diptera, Chironomidae) new to Ireland from specimens collected in 1973-5. *Dipterists Digest* **19**: 161.

Murray, D. A. and O'Connor, J. P. (2018) Distribution records of Chironomidae (Insecta: Diptera) in Ireland from recent collections. *Bulletin of the Irish Biogeographical Society* **42**: 34-44.

Murray, D. A., O'Connor, J. P. and Ashe, P. J. (2016) A contribution to the Fauna Europea Database - additions and amendments to the inventory of Irish Chironomidae (Diptera: Insecta) from the Republic of Ireland and Northern Ireland. *Bulletin of the Irish Biogeographical Society* **40**: 131-141.

—— (2018) *Chironomidae (Diptera) of Ireland - a review, checklist and their distribution in Europe. Occasional Publication of the Irish Biogeographical Society* **Number 12**. Published by the Irish Biogeographical Society in association with University College Dublin and the Environmental Protection Agency, Dublin.

Murray, J. (1939) *Xanthandrus comtus* Harris in Dumfriesshire. *Entomologist's mon. Mag.* **75**: 19.

Murray, W. A. and Murray, D. A. (2003) First record of *Ophrydium versatile* (Müller), a colonial peritrich ciliate (Protista), from Clare Island, Co. Mayo, Ireland. *Bulletin of the Irish Biogeographical Society* **27**: 183-186. (chironomids)

National Biodiversity Data Centre (2020) Leafminers of Ireland.
<https://maps.biodiversityireland.ie/Dataset/254>
(Col., Dipt., Hym., Lep.)

Nartshuk, E. P. (1984) Family Chloropidae. Pp 222-299. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Nash, R. (1975) *Sciomyza dryomyzina* Zett. (Diptera, Sciomyzidae) new to Ireland and records of two other Sciomyzidae of note. *Entomologist's mon. Mag.* **110** (1974): 78.

—— (1975) *Parasyrphus vittiger* (Zetterstedt) (Diptera: Syrphidae) confirmed as an Irish species. *Ir. Nat. J.* **18**: 229-230.

—— (1976) Conopidae (Diptera): some Irish distribution records. *Ir. Nat. J.* **18**: 364.

—— (1977) *Helina abdominalis* (Zetterstedt, 1846) and *Helina atricolor* (Fallen, 1824) (Diptera: Muscidae): flies new to Ireland. *Ir. Nat. J.* **19**: 27.

—— (1979) A checklist of Irish Fanniidae and Muscidae (Diptera). *Bulletin of the Irish Biogeographical Society* **3**: 11-17.

—— (1979) A checklist of Irish Tachinidae (Diptera). *Bulletin of the Irish Biogeographical Society* **3**: 30-33.

—— (1985) The Irish species of Rhinophoridae (Diptera). *Ir. Nat. J.* **21**: 463-464.

—— (1989) Diptera new to Ireland, Tipulidae, Empididae, Sphaeroceridae, Chloropidae). *Ir. Nat. J.* **23**: 151-152.

—— (1989) *Alophora hemiptera* (Fabricius) and *Tachina grossa* (L.) (Diptera: Tachinidae) in Ireland. *Ir. Nat. J.* **23**: 152.

—— (1989) A second Irish record of *Chorisops nagatomii* Rozkosny, 1979 (Diptera: Stratiomyiidae). *Ir. Nat. J.* **23**: 153.

—— (1997) Species Inventory for Northern Ireland: muscids (Diptera: Faniidae and Muscidae). *Environment and Heritage Service Research and Development Series* **No. 97/9**.

Nash, R. (1997) Species Inventory for Northern Ireland: hoverflies (Diptera: Syrphidae). *Environment and Heritage Service Research and Development Series* **No. 97/8**.

Nash, R. and Chandler, P. J. (1978) The Irish species of two-winged flies (Diptera) belonging to the families Fannidae and Muscidae. *Proceedings of the Royal Irish Academy* **78**B: 13-43.

Nash, R. and Irwin, A. G. (1973) A provisional list of soldier flies (Diptera: Stratiomyidae) from Cos Antrim and Down. *Ir. Nat. J.* **17**: 388-390.

Nash, R. and O'Connor, J. P. (1982) *Limnophora exuta* and *Leptocera caenosa* (Insecta: Diptera) new to Ireland. *Ir. Nat. J.* **20**: 549-550.

—— (2011) Notes on the Irish entomologist Alexander Henry Haliday (1806-1870). *Bulletin of the Irish Biogeographical Society* **35**: 64-112.

Nash, R., O'Connor, J. P. and Chandler, P. J. (2001) The Irish species of lesser dung flies (Insecta: Diptera, Sphaeroceridae) including a list of type specimens described by Alexander Henry Haliday in Humboldt University Museum, La Specola and the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 180-210.

Nash, R. and Ross, H. C. G. (1977) A note on the hovering behaviour of *Haematopota pluvialis* (L.) (Diptera: Tabanidae). *Entomologist's Gazette* **28**: 267-268.

Nash, R. and Speight, M. C. D. (1976) Records of, and notes on, some rare Irish hover-flies (Diptera: Syrphidae) including a first Irish record of *Criorhina ranunculi* (Panzer). *Ir. Nat. J.* **18**: 351-356.

Nedeljković, Z., Ačanski, J., Vujić, A., Obreht, D., Đan, M., Ståhls, G. and Radenković, S. (2013) Taxonomy of *Chrysotoxum festivum* Linnaeus, 1758 (Diptera: Syrphidae) - an integrative approach. *Zoological Journal of the Linnean Society* **169**: 84-102.

Negrobov, O. P. (1991) Family Dolichopodidae. Pp 11-139. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **7**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Nelson, B. (1988) Records of uncommon hoverflies (Diptera: Syrphidae) from Northern Ireland. *Ir. Nat. J.* **22**: 453.

—— (1990) *Xanthandrus comtus* (Harris) and *Xylota abiens* Meigen (Diptera: Syrphidae) in Co Fermanagh. *Ir. Nat. J.* **23**: 221.

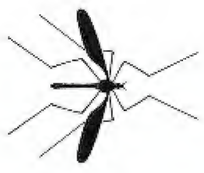
—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

—— (2008) *Agabus melanarius* Áube (Dytiscidae) a water beetle new to Ireland. *The Coleopterist* **17**: 151-153.

—— (2020) The ladybird parasitoid *Phalacrotophora fasciata* (Fallén) (Diptera, Phoridae) new to Ireland. *Dipterists Digest* **27**: 88.

Nelson, B. H. and Anderson, R. (1998) Land and freshwater invertebrates. Pp 85-88. *In* Kaznowska, S. (ed.) *Coastal directory of the British Isles.* Region 4/17. JNCC, Peterborough.

Norrbom, A. L. and Kim, K. C. (1985) Systematics of *Crumomyia* Macquart and *Alloborborus* Duda (Diptera: Sphaeroceridae). *Systematic Entomology* **10**: 167-225.



O'Brien, C., Selby, K., Ruiz, Z., Brown, A., Dinnin, M., Caseldine, C., Langdon, P. and Stuijts, I. (2005) A sediment-based multiproxy palaeoecological approach to the environmental archaeology of lake dwellings (crannogs), central Ireland. *The Holocene* **15**: 707-719. (Chironomidae)

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1983) A record of a human-biting deer fly (*Lipoptena cervi* (L.)) from Ireland. *Entomologist's Rec. J. Var.* **95**: 32-33.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history*. The Lilliput Press, Dublin.

—— (2000) *Melanophora roralis* (L.) (Diptera: Rhinophoridae) in Co Clare. *Ir. Nat. J.* **26** (1999): 278-279.

—— (2000) Seven gall-causing species (Diptera and Eriophyoidea) new to Ireland with notes on other species. *Cecidology* **15**: 92-98.

—— (2000) *Melanagromyza dettmeri* Hering (Dip.: Agromyzidae) new to Ireland and a second Irish record of its parasitoid *Diglyphosema conjungens* Kieffer (Hym.: Eucoilidae). *Entomologist's Rec. J. Var.* **112**: 105-106.

—— (2001) *Agromyza anthracina* Meigen (Dipt., Agromyzidae), new to Ireland. *Entomologist's mon. Mag.* **137**: 154.

—— (2001) Records of Irish galls (Diptera and Eriophyoidea) in 2000 including *Dasineura thomasiana* (Kieffer) new to Ireland. *Cecidology* **16**: 69-73.

—— (2002) Four gall-causing species (Diptera and Eriophyoidea) new to Ireland, with other records from 2001. *Cecidology* **17**: 25-30.

—— (2002) *Xenodiplosis laeviusculi* (Rübsaamen) (Dipt.: Cecidomyiidae), a spangle gall inquiline new to Ireland. *Entomologist's Rec. J. Var.* **114**: 213-215.

—— (2003) A third Irish record of *Voria ruralis* (Fallén) (Insecta: Tachinidae). *Ir. Nat. J.* **27**: 210.

—— (2003) Four species (Diptera and Eriophyoidea) new to Ireland, with other gall records from 2002. *Cecidology* **18**: 17-22.

—— (2004) A record of *Trupanea stellata* (Fuessly) (Dipt., Tephritidae) from south-east Ireland. *Entomologist's mon. Mag.* **140**: 99.

—— (2004) A review of the Irish gall-wasps (Hymenoptera: Cynipidae) with notes on the gall-midges (Diptera: Cecidomyiidae) and gall-mites (Acarina: Eriophyoidea). *Ir. Nat. J.* **27**: 335-343.

—— (2004) *Eriophyes padi* (Nalepa) (Eriophyoidea) new to Ireland with notes on other galls. *Cecidology* **19**: 3-5.

—— (2005) A second Irish record of *Fannia parva* (Stein) (Diptera: Fanniidae). *Ir. Nat. J.* **28**: 49.

—— (2005) *Aceria anceps* (Nalepa) and *Aculus magnirostris* (Nalepa) (Eriophyoidea) new to Ireland, with notes on other galls. *Cecidology* **20**: 2-3. (Cecidomyiidae)

—— (2005) A second Irish site for *Torymus varians* (Walker) (Hymenoptera: Torymidae). *Ir. Nat. J.* **28**: 172. (*Anomoia purmunda*)

O'Connor, J. P. (2005) *Dasineura aparines* (Kieffer) (Diptera: Cecidomyiidae) new to Ireland. *Ir. Nat. J.* **28**: 172-173.

—— (2006) Records of Irish galls in 2005 including seven species new to Ireland. *Cecidology* **21**: 6-8.

—— (2007) Irish records of *Coboldia fuscipes* (Meigen) and *Efcookella albitarsis* (Zetterstedt) (Dipt., Scatopsidae) from Co. Wexford. *Entomologist's mon. Mag.* **143**: 58.

—— (2008) *Sphenella marginata* (Fallén) (Dipt., Tephritidae) discovered in southern Ireland. *Entomologist's mon. Mag.* **144**: 128.

—— (2010) *Placochela nigripes* (F. Löw) (Diptera: Cecidomyiidae) new to Ireland. *Ir. Nat. J.* **30** (2009): 143-144.

—— (2011) A second Irish record of *Taxomyia taxi* (Inchbald) (Dipt., Cecidomyiidae). *Entomologist's mon. Mag.* **147**: 22.

O'Connor, J. P. and Ashe, P. (1991) Swarming of *Coboldia fuscipes* (Meigen) (Diptera: Scatopsidae) in Co Dublin. *Ir. Nat. J.* **23**: 463.

—— (1991) Ten species of Sciaridae (Diptera) new to Ireland. *Dipterists Digest* **8**: 29-30.

—— (1992) *Drosophila repleta* Wollaston (Dipt., Drosophilidae), an unsavoury find in a Dublin pub. *Entomologist's mon. Mag.* **128**: 146.

—— (1994) Further records of *Drosophila repleta* Wollaston (Diptera) in Ireland. *Ir. Nat. J.* **24**: 467.

—— (1997) *Metriocnemus cavicola* Kieffer (Dipt., Chironomidae) new to Ireland. *Entomologist's mon. Mag.* **133**: 76.

—— (1998) A second Irish record of *Ctenophora pecticornis* (L.) (Dip.: Tipulidae). *Entomologist's Rec. J. Var.* **110**: 173-174.

—— (1999) *Chaoborus flavicans* (Meigen) (Diptera, Chaoboridae), a phantom midge new to Ireland. *Dipterists Digest* **6**: 56-57.

—— (2000) A second Irish record for *Drosophila immigrans* Sturtevant (Dipt., Drosophilidae). *Entomologist's mon. Mag.* **136**: 116.

—— (2000) A record of *Drosophila funebris* (Fabr.) (Diptera: Drosophilidae) from Carlow. *Ir. Nat. J.* **26** (1999): 278.

—— (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

—— (2003) *Agromyza pseudoreptans* Nowakowski (Diptera: Agromyzidae) discovered in a Co Dublin garden. *Ir. Nat. J.* **27**: 211.

—— (2004) New records of Irish Culicidae and Dixidae (Diptera). *Ir. Nat. J.* **27**: 355-356.

—— (2006) A second Irish record of *Metriocnemus cavicola* Kieffer (Diptera: Chironomidae). *Ir. Nat. J.* **28**: 300.

O'Connor, J. P., Ashe, P., O'Connor, M. A. and Wistow, S. (1995) *Andricus nudus* (Hym.: Cynipidae) and *Taxomyia taxa* (Dipt.: Cecidomyiidae): insects new to Ireland. *Entomologist's Rec. J. Var.* **107**: 105-106.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P., Ashe, P. and Wistow, S. (1996) Five species (Diptera and Eriophyoidea) new to Ireland, with notes on some other galls. *Cecidology* **11**: 26-28.

O'Connor, J. P., Ashe, P. and Wistow, S. (1998) An Irish indoor record of *Drosophila busckii* Coquillett (Dipt., Drosophilidae). *Entomologist's mon. Mag.* **134**: 338.

O'Connor, J. P., Ashe, P., Wistow, S. and O'Connor, M. A. (1995) Records of new Irish galls (Cecidomyiidae and Eriophyoidea), with notes on other species. *Cecidology* **10**: 5-9.

—— (1995) Further records of Irish galls (Hemiptera, Diptera, and Eriophyoidea). *Cecidology* **10**: 70-81.

O'Connor, J. P., Bowdrey, J. P., Redfern, M. and Higginbottom, T. (2008) Records of Irish galls (Fungi; Insecta: Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera; Acarina: Eriophyidae) including eight species new to Ireland and one deletion from the Irish list. *Bulletin of the Irish Biogeographical Society* **32**: 40-61.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P. and Chandler, P. J. (2000) Distributional records of Irish Diptera. *Bulletin of the Irish Biogeographical Society* **24**: 75-110.

—— (2006) Records of Irish Agromyzidae (Diptera) including two species new to Ireland. *Ir. Nat. J.* **28**: 280-283.

—— (2007) Some records of Irish Lonchaeidae (Diptera) with corrections to the Irish list of this family. *Ir. Nat. J.* **28** (2006): 313-314.

O'Connor, J. P., Chandler, P. J., Ashe, P., Speight, M. C. D and Nash, R. (2007) A review of the Irish lesser fruit-flies (Diptera; Drosophilidae). *Ir. Nat. J.* **28**: 506-516.

O'Connor, J. P. and Ismay, J. W. (2005) *Calamoncosis glyceriae* Nartshuk (Dipt., Chloropidae), new to Ireland. *Entomologist's mon. Mag.* **141**: 138.

O'Connor, J. P. and Nash, R. (1982) Notes on the entomological collection of A. H. Haliday (1806-1870) in the National Museum of Ireland, with a recommendation for type designations. *Proceedings of the Royal Irish Academy* **82**B: 169-175, plates I-IV.

—— (1986) Insects imported into Ireland 8. Records of Hemiptera, Coleoptera, Diptera and Lepidoptera. *Ir. Nat. J.* **22**: 104-107.

O'Connor, J. P. and O'Connor, M. A. (1987) A third Irish record of *Paykullia maculata* (Fallen) (Diptera: Rhinophoridae). *Ir. Nat. J.* **22**: 212.

—— (1998) *Anomoia purmunda* (Harris) (Dipt., Tephritidae) swarming in a freshly painted Irish shed. *Entomologist's mon. Mag.* **134**: 284.

—— (2016) The cauliflower ash gall of *Aceria fraxinivora* (Acari: Eriophyoidea) new to Northern Ireland. *Cecidology* **31**: 13-14. (Dipt., Hym.)

O'Connor, J. P., O'Connor, M. A. and Ashe, P. (1992) Records of *Thaumalea verralli* Edwards (Diptera) from Co Waterford. *Ir. Nat. J.* **24**: 168.

—— (1999) *Drosophila repleta* Wollaston (Diptera: Drosophilidae) in south-east Ireland. *Ir. Nat. J.* **26** (1998): 55.

O'Connor, J. P., O'Connor, M. A., Wallace, I. D. and Wallace, B. (1986) *Thaumastoptera calceata* Mik (Diptera: Limoniidae) new to Ireland. *Ir. Nat. J.* **22**: 118.

O'Connor, J. P., O'Connor, M. A., Wistow, S. and Ashe, P. (1998) *Phyllocoptes gibbosus* Nalepa (Eriophyoidea) new to Ireland, with notes on other galls. *Cecidology* **13**: 3-8.

O'Connor, J. P. and Ronayne, C. (2003) *Oebalia minuta* (Diptera) new to Ireland and second Irish records of *Pteromalus apum* and *Torymus armatus* (Hymenoptera). *Ir. Nat. J.* **27**: 229-231.

O'Connor, J. P. and Sleeman, D. P. (1987) A review of the Irish Hippoboscidae (Insecta: Diptera). *Ir. Nat. J.* **22**: 236-239.

O'Connor, J. P. and Speight, M. C. D. (1987) *Macrosiphum albifrons*, *Dictenida bimaculata*, *Callaspidia defonscolombei* and *Xyalaspis petiolata*: insects new to Ireland. *Ir. Nat. J.* **22**: 199-201.

—— (2001) A third Irish record of *Stegana coleoptrata* (Scopoli) (Dipt., Drosophilidae). *Entomologist's mon. Mag.* **137**: 26.

—— (2002) *Neoleria maritima* (Villeneuve) (Dipt., Heleomyzidae) new to Ireland. *Entomologist's mon. Mag.* **138**: 32.

O'Connor, J. P. and Wistow, S. (1999) Fourteen gall-causing species (Diptera and Eriophyoidea) new to Ireland with notes on other species. *Cecidology* **14**: 5-10.

O'Connor, J. P., Wistow, S. and Ashe, P. (1994) Notes on the galls of *Macrodiplosis dryobia* and *M. volvens* (Diptera) and of *Eriophyes fraxinivorus* (Acari) in Ireland. *Cecidology* **9**: 75-77.

O'Connor, J. P., Wistow, S., Ashe, P. and O'Connor, M. A. (1997) Nine galls (Hemiptera, Diptera and Eriophyoidea) new to Ireland with notes on other species. *Cecidology* **12**: 14-23.

—— (1999) A review of the Irish gall-inducing Cecidomyiidae (Diptera) and their inquilines. *Ir. Nat. J.* **26** (1999): 81-92.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21.

O'Halloran, J., Irwin, S., Kelly, D. L., Kelly, T. C., Mitchell, F. J. G., Coote, L., Oxbrough, A., Wilson, M. W., Martin, R. D., Moore, K., Sweeney, O., Dietzsch, A. C., Walsh, A., Keady, S., French, V., Fox, H., Kopke, K., Butler, F. and Neville, P. (2011) *Management of biodiversity in a range of Irish forest types.* Report prepared for the Department of Agriculture, Fisheries and Food, Dublin. 391pp.

O'Mahony, E. (1931) A dipterous parasite of woodlice. *Entomologist's mon. Mag.* **67**: 182.

—— (1936) *Stratiomys furcata* Fab., in North Co. Dublin. *Ir. Nat. J.* **6**: 126.

—— (1940) A note on some Irish Hippoboscidae (Dipt.). *Journal of the Society for British Entomology* **2**: 75.

—— (1944) Emergence of *Stenepteryx hirundinis* (L.) (Dipt., Hippoboscidae). *Entomologist's mon. Mag.* **80**: 295.

—— (1947) *Anopheles claviger* Meig. (Dipt., Culicidae) in Co. Dublin. *Entomologist's mon. Mag.* **83**: 292.

—— (1948) *Lipoptena cervi* L. (Dipt. Hippoboscidae) in Ireland *Entomologist's mon. Mag.* **84**: 231.

—— (1950) The Hippoboscidae (Diptera) of Ireland. *Journal of the Society for British Entomology* **3**: 207-210.

O'Rourke, F. J. (1968) Furuncular myiasis caused by warble fly (*Hypoderma*) larvae in patients from Co. Cork. *Journal of the Irish Medical Association* **61**: 19-20.

O'Rourke, F. J. (1969) *Tabanus bromius* L., a bloodsucking fly new to Ireland with notes on the species of *Tabanus* recorded from Ireland. *Ir. Nat. J.* **16**: 230-231.

—— (1970) *Rheotanytarsus* Bause (Diptera: Chironomidae), a genus not previously recorded from Ireland, with notes on the question of the species occurring in Great Britain and Ireland. *Entomologist's Gazette* **21**: 285-288.

O'Sullivan, A. D., McCabe, O. M., Murray, D. A. and Otte, M. L. (1999) Wetlands for rehabilitation of metal mine wastes. *Biology and Environment: Proceedings of the Royal Irish Academy* **99**B: 11-17. (Col., Dipt., Eph.)

O'Sullivan, M. (1992) The butterflies of County Kerry. *Bulletin of the Amateur Entomologists' Society* **51**: 195-204.

O'Sullivan, M. J. (1990) Burren Lepidoptera. *Bulletin of the Amateur Entomologists' Society* **49**: 37-45.

Okely, E. F. (1979) The larval morphology of *Erioptera trivialis* Meigen and *Molophilus occultus* De Meijere, with additional notes on *Tricyphona immaculata* Meigen (Diptera, Tipulidae: Limoniinae). *Proceedings of the Royal Irish Academy* **79**B: 235-246.

Oldroyd, H. (1969) Diptera Brachycera Section (a) Tabanoidea and Asiloidea. *Handbooks for the Identification of British Insects* **9**(4): 1-132.

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Oosterbroek, P. (2001) On the presence of *Tipula* (*Platytipula*) *luteipennis* Meigen (Diptera: Tipulidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 218-219.

Oosterbroek, P., Bygebjerg, R. and Munk, T. (2006) The west Palearctic species of Ctenophorinae (Diptera: Tipulidae): key, distribution and references. *Entomologische Berichten* **66**: 138-149.

Oosterbroek, P. and Theowald, B. (1992) Family Tipulidae. Pp 56-178. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **1**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Orr, H. K. (1907) *Ornithomyia avicularia* on Starlings. *Ir. Nat.* **16**: 324.

Ortiz, R. G. (2009) *Biosystematic contributions to Agromyzidae (Diptera)*. Doctoral, Departamento de Ecosistemas Agroforestales, Universidad Politécnica de Valencia, Valencia.

Osborne, J. A. (1884) A postscript concerning parthenogenesis in *Zaraea fasciata*. *Entomologist's mon. Mag.* **21**: 128-129.

Osterbroek, P. (1978-1980) The Western Palaearctic species of *Nephrotoma* Meigen, 1803, (Diptera, Tipulidae). Part 1. *Beaufortia* **27**: 1-137. Part 3. *Beaufortia* **28**: 157-203. Part 4. *Beaufortia* **29**: 129-197. Part 5. *Beaufortia* **29**: 311-393.

Pack-Beresford, D. R. (1898) Tube-forming larvae. *Ir. Nat.* **7**: 4-6.

Paine, T. D., Steinbauer, M. J. and Lawson, S. A. (2011) Native and exotic pests of *Eucalyptus*: a worldwide perspective. *Annual Review of Entomology* **56**: 181-201.

Papp, L. (1984) Family Lauxaniidae (Sapromyzidae). Pp 193-217. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1984) Family Agromyzidae. Pp 263-343. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Papp, L. (1984) Family Sphaeroceridae (Borboridae). Pp 68-107. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1984) Family Camillidae. Pp 180-182. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Parker, J. (2006) *Hoplolabis* (*Parilisia*) *yezoana* (Alexander, 1924) (Diptera, Limoniidae) new to Great Britain. *Dipterists Digest* **12** (2005): 149-150.

Parker, M. J. (2001) *Cheilosia ahenea* von Roser (Diptera, Syrphidae) new to Great Britain. *Dipterists Digest* **8**: 24-26.

Parmenter, L. (1942) *Tipula yerburyi* Edw. (Dipt., Tipulidae) in Dorset. *Entomologist's mon. Mag.* **78**: 15.

Patterson, R. (1842) Note on the appearance of clouds of Diptera. *Annals and Magazine of Natural History* **10**: 6-9.

Peck, L. V. (1988) Family Syrphidae. Pp 11-230. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **8**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Penney, D., Notcutt, B. and Rowntree, J. (2013) Seed predation of yellow rattle *Rhinanthus minor* by *Phytomyza varipes* (Diptera: Agromyzidae), with new British records. *British Journal of Entomology and Natural History* **26**: 1-7. (Ireland mentioned)

Phibbs, G. (1922) The larval mouth-hooks of *Hypoderma. Ir. Nat.* **31**: 25-30.

Phibbs, G. B. (1921) Variations in the segmental spines of the fourth-stage larva of *Hypoderma bovis*. *Ir. Nat.* **30**: 53-57.

Pinder, L. C. V. and Cranston, P. S. (1976) Morphology of the male imagines of *Orthocladius* (*Pogonocladius*) *consobrinus* and *O. glabripennis* with observations on the taxonomic status of *O. glabripennis* (Diptera: Chironomidae). *Entomologica Scandinavica* **7**: 19-23.

Pitkin, B. R. (1988) Lesser dung flies. Diptera: Sphaeroceridae. *Handbooks for the Identification of British Insects* **10**(5e): 1-175.

Plant, A. (2012) A key to British species of *Platypalpus* Macq. (Hybotidae). *Dipterists Forum - Empid & Dolichopodid Recording Scheme Newsletter* **17**: 1-12.

Plant, A. R. (2011) Hemerodromiinae (Diptera: Empididae): a tentative phylogeny and biogeographical discussion. *Systematic Entomology* **36**: 83-103. (some figures may relate to Ireland)

Plant, C. W. (1999) The wasp hoverfly *Doros profuges* (Harris). Report of the 1999 survey. *English Nature Research Reports* **352**: 1-46.

Plassmann, E. (1988) Family Bolitophilidae. Pp 193-196. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Pollet, M. (1990) Two *Hercostomus* (*Gymnopternus*) species, new to Great Britain. *Dipterists Digest* **7**: 30-33.

—— (1990) Phenetic and ecological relationships between species of the subgenus *Hercostomus* (*Gymnopternus*) in western Europe with the description of two new species (Diptera: Dolichopodidae). *Systematic Entomology* **15**: 359-382.

—— (1996) Systematic revision and phylogeny of the Palaearctic species of the genus *Achalcus* Loew (Diptera: Dolichopodidae) with the description of four new species. *Systematic Entomology* **21**: 353-386. (mention of *A. melanotrichus* Mik)

Pont, A. (ed.) (1988) *Provisional atlas of the Sepsidae (Diptera) of the British Isles.* Biological Records Centre, Huntingdon. 33pp.

Pont, A. C. (1979) Sepsidae Diptera Cyclorrhapha, Acalyptrata. *Handbooks for the Identification of British Insects* **10**(5c): 1-35.

—— (1986) Family Fanniidae. Pp 41-57. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **11**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1986) Family Muscidae. Pp 57-215. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera*. **11**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (2003) Notes on some Fanniidae and Muscidae (Diptera) in the Curtis Collection, Melbourne Museum, Australia. *Dipterists Digest* **10**: 31-39. (also contains information on Haliday species)

Pont, A. C. and Falk, S. (2013) *Polietes meridionalis* Peris & Llorente (Diptera, Muscidae) new to Britain. *Dipterists Digest* **20**: 45-51.

Pont, A. C., Lole, M. J., Leblanc, H. N. and Cole, J. H. (2007) The American Black Dump Fly *Hydrotaea aenescens* (Wiedemann, 1830) (Diptera, Muscidae) in Britain and Ireland. *Dipterists Digest* **14**: 23-29.

Pont, A. C. and Meier, R. (2002) The Sepsidae (Diptera) of Europe. *Fauna Entomologica Scandinavica* **37**.

Porst, G., Brauns, M., Irvine, K., Solimini, A., Sandin, L., Pusch, M. and Miler, O. (2019) Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. *Ecological Indicators* **98**: 285-296.

Potito, A. P., Woodward, C. A., McKeown, M. and Beilman, D. W. (2014) Modern influences on chironomid distribution in western Ireland lakes: potential for palaeoenvironmental reconstruction. *Journal of Paleolimnology* **52**: 385-404.

Power, E. F., Jackson, Z. and Stout, J. C. (2016) Organic farming and landscape factors affect abundance and richness of hoverflies (Diptera, Syrphidae) in grasslands. *Insect Conservation and Diversity* **9**: 244-253.

Power, E. F. and Stout, J. C. (2011) Organic dairy farming: impacts on insect flower interaction networks and pollination. *Journal of Applied Ecology* **48**: 561-569.

Ramsdale, C. and Snow, K. (1999) A preliminary checklist of European mosquitoes. *European Mosquito Bulletin* **5**: 25-35. (*Aedes detritus*: the taxon described by Haliday (1833) from Ireland = sibling species B)

Ramsdale, C. D. and Snow, K. R. (2001) Distribution of the genera *Coquillettidia*, *Orthopodomyia* and *Uranotaenia* in Europe. *European Mosquito Bulletin* **10**: 25-29.

Rees, A. T. and Snow, K. R. (1994) The distribution of the genera *Culiseta*, *Orthopodomyia* and *Coquilletidia* in Britain. *Dipterists Digest* **1**: 36-50.

—— (1996) The distribution of *Aedes*: subgenus *Ochlerotatus* in Britain. *Dipterists Digest* **3**: 5-23. (mention of *A. detritus*)

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.



Reilly, E. (2008) An ever-closing gap? Modern ecological and palaeoecological contributions towards understanding the Irish post-glacial insect fauna. Pp 63-71. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reiss, F. (1984) Chironomiden (Diptera, Insecta) aus dem Ampertal bei Schöngeising, Oberbayern. *Mitteilungen der Zoologischen Gesellschaft Braunau* **4**: 211-220. (includes two records of *Buchonomyia thienemanni* from Ireland)

Remm, H. (1988) Family Ceratopogonidae. Pp 11-110. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **3**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Reynolds, J. D., Cooke, D., Simon, N., Allott, N. and Brennan, M. (1994) Macroinvertebrate communities of poorly buffered afforested and non-afforested streams in western Ireland. *Verh. Internat. Verein. Limnol.* **25**: 1496-1501.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Reynolds, J. D. and Hunter, C. (1985) Evaluation of the use of artificial substrates in sampling the invertebrate fauna of sewage fungus slimes in Irish rivers. *Verh. Internat. Verein. Limnol.* **22**: 2239-2243.

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream - and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730.

Richards, O. W. (1960) A species of *Sarcophaga* (Dipt., Calliphoridae) new to Ireland. *Entomologist's mon. Mag.* **96**: 17.

Ripley, M. P. (1980) The relation of dry weight and temperature to respiration in some benthic chironomid species in L. Neagh. Pp 81-88. *In* Murray, D. A. (ed.) *Chironomidae: ecology, systematics, cytology and physiology.* Pergamon, Oxford.

Robbins, J. (1989) The Agromyzidae of Warickshire. *Dipterist's Digest* **2**: 17-30.

Rognes, K. (1987) The taxonomy of the *Pollenia rudis* species-group in the Holarctic Region (Diptera: Calliphoridae). *Systematic Entomology* **12**: 475-502. (*Musca obscura*)

Roháček, J. (2011) New records of Anthomyzidae and Stenomicridae (Diptera) from Turkey. *Časopis Slezského muzea v Opavě (A)* **60**: 147-153.

Ronayne, C. and O'Connor, J. P. (2009) *Lipara lucens* Meigen (Dipt., Chloropidae), a first confirmed Irish record and an earlier unconfirmed record. *Entomologist's mon. Mag.* **145**: 210.

Roper, I. M. (1929) Some plants of north Ireland. *Ir. Nat. J.* **2**: 166-169. (Cecidomyiidae)

Rossaro, B. (1995) The distribution of Palaearctic Diamesinae. *Spixiana* **18**: 177-186.

Rotheray, G. E. and Lyszkowski, R. M. (2012) Pallopteridae (Diptera) in Scotland. *Dipterists Digest* **19**: 189-203.

Rozkosny, R. (1974) *Nemotelus subuliginosus* sp.n. and some notes on the taxonomy of West-Palaearctic Stratiomyidae (Diptera). *Folia Facultatis Scientiarium Naturalium Universitatis Purkyniae, Brunensis* **15**, Biol 43: 45-49.

—— (1978) Stratiomyidae. Pp 451-464. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Rozkosny, R. and Elberg, K. (1984) Family Sciomyzidae (Tetanoceridae). Pp 167-193. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Rozkosny, R. and Nartshuk, E. P. (1988) Family Stratiomyidae. Pp 42-96. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **5**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Russo, L., Memmott, J., Montoya, D., Shea, K. and Buckley, Y. M. (2014) Patterns of introduced species interactions affect multiple aspects of network structure in plant-pollinator communities. *Ecology* **95**: 2953-2963.

Russo, L., Stout, J. and Speight, M. C. D. (2019) On the presence of *Neocnemodon brevidens* (Egger, 1865) in Ireland (Diptera: Syrphidae). *Ir. Nat. J.* **36**: 151-153.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Ryan, J. and Ryan, M. F. (1980) Observations on the natural mortality of the overwintering pupa of the cabbage root fly, *Delia brassicae* (Wiedemann) in Ireland. *Plant Pathology* **29**: 38-44.

Ryan, J., Ryan, M. F. and McNaeidhe, F. (1980) The effect of interrow plant cover on populations of the cabbage root fly *Delia brassicae* (Wiedemann). *Journal of Applied Ecology* **17**: 31-40.

Ryan, M. F. and Behan, M. (1973) The sensory receptors of the carrot fly larva, *Psila rosae* (F.) (Dipt., Psilidae). *Bulletin of Entomological Research* **62**: 545-548.

—— (1973) Cephalic sensory receptors of the cabbage-root fly larva, *Erioischia brassicae* (B.) (Diptera: Anthomyiidae). *International Journal of Insect Morphology and Embryology* **2**: 83-86.

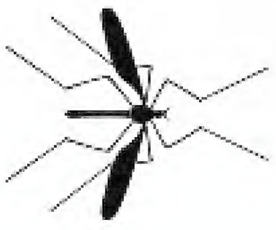
Ryder, C., Mc Donnell, R. J., Gormally, M. J. and Knutson, L. (2003) *Colobaea distincta* (Meigen): a sciomyzid (Diptera) new to Ireland with a key to the Irish species of the genus. *Ir. Nat. J.* **27**: 184-186.

Ryder, C., Moran, J., Mc Donnell, R. and Gormally, M. (2005) Conservation implications of grazing practices on the plant and dipteran communities of a turlough in Co. Mayo, Ireland. *Biodiversity and Conservation* **14**: 187-204.

Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60.

Saether, O. A. (2009) *Telmatogeton murrayi* sp. n. from Iceland and *T. japonicus* Tokunaga from Madeira (Diptera: Chironomidae). *Aquatic Insects* **31**: 31-44. (*T. japonicus*)

Saether, O. A., Ashe, P. and Murray, D. A. (2000) Family Chironomidae. Pp 113-334. *In* Papp, L. and Darvas, B. (eds) *Manual of Palaearctic Diptera*. Appendix. Science Herald, Herald, Budapest.



Saether, O. A. and Sublette, J. E. (1983) A review of the genera *Doithrix* n. gen., *Georthocladius* Strenzke, *Parachaetocladius* Wülker and *Pseudorthocladius* Goetghebuer (Diptera: Chironomidae, Orthocladiinae). *Entomological Scandinavica Supplement* **20**: 1-100. (*Pseudorthocladius* (*Pseudorthocladius*) *cranstoni* n. sp. from Co. Kerry)

Savchenko, E. N., Oosterbroek, P. and Stary, J. (1992) Family Limoniidae. Pp 183-369. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **1**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Scannell, M. J. P. (1992) 28th Aer Lingus Young Scientists' Exhibition. *Ir. Nat. J.* **24**: 175. (Dipt., Hym.)

—— (2009) The cauliflower ash gall on *Fraxinus excelsior* L. (ash) in Ireland. *Ir. Nat. J.* **29** (2008) 135-136. (*Arthrocnodax fraxinella*)

Schiltz, R. W. (1978) Ptychopteridae. P. 386. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Schmitz, H. (1938) On the Irish species of the dipterous family Phoridae. *Proceedings of the Royal Irish Academy* **44**B: 173-204, plate ix.

Scholte, E.-J., den Hartog, W. and Reusken, C. (2011) A report of *Anopheles algeriensis* (Diptera: Culicidae) from The Netherlands. *Entomologische Berichten* **71**: 39-42.

Schönrogge, K., Barr, B., Wardlaw, J. C., Napper, E., Gardner, M. G., Breen, J., Elmes, G. W. and Thomas, J. A. (2002) When rare species become endangered: cryptic speciation in myrmecophilous hoverflies. *Biological Journal of the Linnean Society* **75**: 291-300.

—— (2002) Addendum. When rare species become endangered: cryptic speciation in myrmecophilous hoverflies. *Biological Journal of the Linnean Society* **76**: 315.

Schröder, P. (1987) Algae as food of blackfly (Diptera: Simuliidae) in some Irish river systems. *Archiv für Hydrobiologie Supplement* **77**: 117-141.

—— (1988) Distribution patterns of blackfly (Diptera: Simuliidae) associations in two Irish river systems. *Hydrobiologia* **164**: 149-160.

Schröder, P. and Schweder, H. (1986) Kriebelmücken (Diptera: Simuliidae) im county Kerry, Südwest Irland. *Zeitschrift für Angewandte Entomologie* **96**: 85-91.

Schumann, H. (1986) Family Calliphoridae. Pp 11-58. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **12**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Sheehy Skeffington, M., Moran, J., O'Connor, Á., Regan, E., Coxon, C. E., Scott, N. E. and Gormally, M. (2006) Turloughs - Ireland's unique wetland. *Biological Conservation* **133**: 265-290.

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106.

—— (2009) Diversity of Syrphidae (Diptera) on two Irish grassland farms. *Tearmann: The Irish Journal of Agri-Environmental Research* **6**: 69-82.

Shirley, P. (1999) Galls in Northern Ireland. *Cecidology* **14**: 2. (*Dasineura ulmariae*)

Shorrocks, B. (1972) *Drosophila*. Invertebrate types. Ginn and Company, London. (list of species from "Eire")

Sinclair, B. J., Shamshev, I. V. and Gattolliat, J.-L. (2020) Revision of the aquatic dance flies (Diptera: Empididae: Clinocerinae) described by F. Vaillant in two 1960 publications. *Bonn Zoological Bulletin* **69**: 263-274. (*Clinocera stagnalis*, *Wiedemannia lota*)

Skartveit, J. (2002) The larvae of European Bibioninae (Diptera, Bibionidae). *Journal of Natural History* **36**: 449-485. (*Bibio lepidus*)

Skillen, J. (1931) Plague of flies. *Ir. Nat. J.* **3**: 223. (*Chironomus anthracinus*)

Skuhrava, M. (1986) Family Cecidomyiidae. Pp 72-297. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **4**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Skuhravá, M. and Skuhravý, V. (2009) Species richness of gall midges (Diptera: Cecidomyiidae) in Europe (West Palaerctic): biogeography and coevolution with host plants. *Acta Societas Zoologicae Bohemicae* **73**: 87-156.

Sleeman, D. P. (1979) Larvae of *Cephenomyia auribarbis* (Meigen) and *Hypoderma diana* Brauer (Diptera: Oestridae) from a red deer *Cervus elaphus* L. in County Donegal. *Ir. Nat. J.* **19**: 441-442.

—— (1980) Predators of *Hydrotaea irritans* (Fall.) (Dipt. Muscidae). *Entomologist's mon. Mag.* **116**: 154.

—— (1980) A checklist and bibliography of Irish Oestridae and Gasterophilidae (Diptera). *Bulletin of the Irish Biogeographical Society* **4**: 28-29.

—— (1981) Predators of *Hydrotaea irritans* (Fall.) (Dipt., Muscidae). *Entomologist's mon. Mag.* **116**: 154.

—— (1983) Parasites of deer in Ireland. *Journal of Life Sciences of the Royal Dublin Society* **4**: 203-237. (Anop., Dipt., Mall.)

—— (2002) Insects and other invertebrates found in the guts of sea trout (*Salmo trutta* L.). *Ir. Nat. J.* **26** (2001): 381-382.

Sleeman, D. P., Bond, K. G. M. and Barnes, D. K. A. (2003) Flies (Diptera) trapped at a badgers' sett in Co. Cork, Ireland. *Entomologist's Gazette* **54**: 167-170. (Acartophtalmidae, Calliphoridae, Dolichopodidae, Dryomyzidae, Fanniidae, Heleomyzidae, Hybotidae, Muscidae, Phoridae, Scatopsidae (*Scatopse lapponica* new), Sphaeroceridae, Syrphidae)

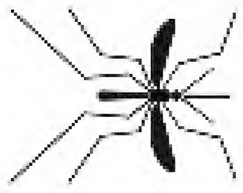
Sleeman, D. P. and Finn, J. A. (1997) The wood-bee *Polietes lardaria* Fabr. (Diptera: Muscidae), a natural fly used for fishing in Co Cork. *Ir. Nat. J.* **25**: 452.

Sleeman, D. P. and Gray, J. S. (1982) Some observations on fly-worry of deer. *Journal of Zoology, London* **198**: 535-541.

Sleeman, D. P., Jones, P. and Cronin, J. N. (1997) Investigations of an association between the stinkhorn fungus and badger setts. *Journal of Natural History* **31**: 983-992. (blowflies)

Smiddy, P. (1997) Louse-flies (Diptera: Hippoboscidae) from the Irish nests of house martins. *Ir. Nat. J.* **25**: 374-377.

Smiddy, P. and Sleeman, D. P. (2004) Recent records of louse-flies (Diptera: Hippoboscidae) taken in Ireland. *Ir. Nat. J.* **27**: 403-404.



Smith, G. F., Gittings, T., Wilson, M., French, L., Oxbrough, A., O'Donoghue, S., O'Halloran, J., Kelly, D. L., Mitchell, F. J. G., Kelly, T., Iremonger, S., Mckee, A. M. and Giller, P. (2008) Identifying practical indicators of biodiversity for stand-level management of plantation forests. *Biodiversity and Conservation* **17**: 991-1015. (hoverflies)

Smith, K. G. V. (1952) The Irish Conopidae (Diptera). *Proceedings of the Royal Irish Academy* **54**B: 203-208.

—— (1952) Some new Irish Diptera records, 1951. *Ir. Nat. J.* **10**: 322.

—— (1952) On some Diptera from Dublin and Wicklow with notes on several species new to Ireland. *Entomologist's mon. Mag.* **88**: 104-106.

—— (1955) Notes on some acarine ectoparasites of Diptera. *Entomologist's mon. Mag.* **91**: 141.

—— (1955) Some notes on *Tetanops myopina* Fallen (Dipt., Otitidae). *Entomologist's mon. Mag.* **91**: 153.

—— (1959) The distribution and habits of the British Conopidae (Dipt.). *Transactions of the Society of British Entomology* **13**: 113-136. (Irish records)

—— (1961) Supplementary records of the distribution and habits of the British Conopidae (Diptera). *Entomologist* **94**: 237-239.

—— (1963) A short synopsis of British Chamaemyiidae (Dipt.). *Transactions of the Society of British Entomology* **15**: 103-115.

—— (1969) Diptera Conopidae. *Handbooks for the Identification of British Insects* **10**(3a): 1-19.

—— (1979) The larva and puparium of *Cheilosia bergenstammi* Becker (Diptera: Syrphidae) with a summary of the known biology of the genus in Europe. *Entomologist's Rec. J. Var.* **91**: 190-194.

Smith, K. G. V. and Chvala, M. (1976) Notes on some British *Platypalpus* Macquart (Dipt: Empididae), including a species new to science, two new to Britain and new synonymy. *Entomologist's Rec. J. Var.* **88**: 137-144.

Smith, M. N. (2004) *Pelatachina tibialis* (Fallén) (Diptera, Tachinidae) new to Ireland and *Nephrotoma crocata* (Linnaeus) (Diptera, Tipulidae) confirmed as an Irish species. *Dipterists Digest* **10**: 115-116.

Snow, K. (1998) Distribution of *Anopheles* mosquitoes in the British Isles. *European Mosquito Bulletin* **1**: 9-13.

—— (1999) Malaria and mosquitoes in Britain: the effect of global climate change. *European Mosquito Bulletin* **4**: 17-25.

Snow, K. and Ramsdale, C. (1999) Distribution chart for European mosquitoes. *European Mosquito Bulletin* **3**: 14-31.

Snow, K. R. (1990) *Mosquitoes. Naturalists' Handbooks* **14**. The Richmond Publishing Co. Ltd, Slough. (mention of *Culiseta litorea* and *C. morsitans*)

Søli, G., Rindal, E. and Hansen, L. O. (2009) New records of fungus gnats for Norway (Diptera, Mycetophilidae). *Norwegian Journal of Entomology* **56**: 69-73. (*Mycetophila britannica*)

Soós, A. (1984) Family Dryomyzidae. Pp 152-154. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Soós, A. (1984) Family Clusiidae (Heteroneuridae). Pp 11-14. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1984) Family Opomyzidae. Pp 53-56. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1984) Family Tethinidae. Pp 107-110. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **10**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Soponis, A. R. (1990) A revision of the Holarctic species of *Orthocladius* (*Euorthocladius*) (Diptera: Chironomidae). *Spixiana Supplement* **13**: 1-56. (*ashei* n. sp., *rivicola* Kieffer, *rivulorum* Kieffer and *thienemanni* Kieffer)

Speight, M. (2012) Savagery, pollination & mimicry. *Biodiversity Ireland* **Issue 9**: 6-7. (Dipt.: Syrphidae)

Speight, M. and Gittings, T. (2020) Hoverflies (Syrphidae) of Ireland, National Biodiversity Data Centre, Ireland. <https://maps.biodiversityireland.ie/Dataset/159>

Speight, M. C. D. (1973) British species of *Sphaerophoria* (Diptera, Syrphidae) confused with *S. menthastri* (L.), including a key to the males of the seven species of *Sphaerophoria* found in the British Isles. *Entomologist* **106**: 228-233.

—— (1974) *Cheilosa sahlbergi* (Diptera: Syrphidae) in Britain. *Entomologist's Rec. J. Var.* **86**: 193-194, plate XV.

—— (1974) *Phaonia exoleta* Mg. (Diptera: Muscidae) new to Ireland. *Entomologist's Rec. J. Var.* **86**: 246, plate XX.

—— (1974) *Bombus lapponicus*, *Parasyrphus lineola* and *Phaonia exoleta*: insects new to Ireland. *Ir. Nat. J.* **18**: 123-124.

—— (1975) *Conops vesicularis*, *Epistrophe nitidicollis* and *Ctenophora atrata*: insects new to Ireland. *Ir. Nat. J.* **18**: 191-192.

—— (1976) *Sphaerophoria rueppellii* (Dipt. Syrphidae) new to Ireland, with figures of its surstyli. *Ir. Nat. J.* **18**: 332-334.

—— (1976) The puparium of *Chrysotoxum festivum* (L.) (Diptera: Syrphidae). *Entomologist's Rec. J. Var.* **88**: 51-52.

—— (1976) *Sphaerophoria virgata* Goeldlin (Dipt.: Syrphidae) new to the British Isles. *Entomologist's Rec. J. Var.* **88**: 300-302.

—— (1976) *Agonum livens*, *Asemum striatum* and *Xylota coerulieventris*: insects new to Ireland. *Ir. Nat. J.* **18**: 274-275.

—— (1976) *Badister meridionalis*, *Megasyrphus annulipes* and *Wesmaelius quadrifasciatus*: insects new to Ireland. *Ir. Nat. J.* **18**: 303-304.

—— (1977) *Metasyrphus nielseni* D. & L. (Dipt.: Syrphidae) in the British Isles *Entomologist's Rec. J. Var.* **89**: 154-155.

—— (1977) Athlone Field Meeting: insects collected on and near the shores of Lough Ree. *Bulletin of the Irish Biogeographical Society* **1**: 27-36. (*Rhagio annulatus* & *Tetanocera freyi*)

—— (1978) A return visit to Hare Island. *Bulletin of the Irish Biogeographical Society* **2**: 40-41.

Speight, M. C. D. (1978) A checklist of Irish Syrphidae (Diptera). *Bulletin of the Irish Biogeographical Society* **2**: 26-31.

—— (1978) *Cheilosia laskai* sp. n. (Diptera: Syrphidae) from Western Ireland. *Ir. Nat. J.* **19**: 217-222.

—— (1978) *Myopa curtirostris* new to Ireland and some other Irish conopid (Diptera) records. *Ir. Nat. J.* **19**: 276-278.

—— (1978) *Cheilosia praecox*, *Lejogaster splendida* and *Orthonevra brevicornis* (Diptera: Syrphidae): insects new to Ireland. *Ir. Nat. J.* **19**: 278-279.

—— (1978) The genus *Paragus* (Dipt: Syrphidae) in the British Isles, including a key to known and possible British Isles species. *Entomologist's Rec. J. Var.* **90**: 100-107.

—— (1978) *Melanostoma dubium* (Dipt. Syrphidae) in Britain and a key to the British Isles *Melanostoma* species. *Entomologist's Rec. J. Var.* **90**: 226-230.

—— (1979) The Irish Pallopteridae (Diptera). *Bulletin of the Irish Biogeographical Society* **3**: 18-26.

—— (1979) A checklist of the Irish Sciomyzidae (Diptera). *Bulletin of the Irish Biogeographical Society* **3**: 27-29.

—— (1979) *Eumerus tuberculatus*, *Geomyza majuscula* and *Pteromicra leucopeza*: insects new to Ireland including a key to British Isles *Eumerus* species. *Ir. Nat. J.* **19**: 397-399.

—— (1980) The *Chrysogaster* species (Dipt. Syrphidae) known in Great Britain and Ireland. *Entomologist's Rec. J. Var.* **92**: 145-150.

—— (1980) *Chiloxanthus pilosus, Palloptera modesta* and *Pipizella heringi* confirmed as Irish species. *Ir. Nat. J.* **20**: 72-73.

—— (1980) *Brachypalpus laphriformis* (Diptera: Syrphidae) in Ireland and its probable demise. *Ir. Nat. J.* **20**: 70-72.

—— (1981) A key to the Xylotini (*sensu* Hippa) known in Great Britain and Ireland, plus *Xylota ignava* (Dipt., Syrphidae). *Entomologist's Rec. J. Var.* **93**: 25-27.

—— (1981) The Irish *Anasimyia* species, including a key and first records of *A. contracta* (Diptera: Syrphidae). *Ir. Nat. J.* **20**: 229-234.

—— (1981) *Chorisops nagatomii*, an insect new to Ireland and its segregation from *C. tibialis* (Diptera: Stratiomyiidae). *Ir. Nat. J.* **20**: 327-329.

—— (1981) *Rhagio annulatus* (Dipt: Rhagionidae): distinctions from *R. tringarius* and recent records. *Proceedings and Transactions of the British Entomological and Natural History Society* **14**: 6-7.

—— (1982) *Acrocera globulus*, *Limnia paludicola* and *Sphaerophoria loewi*: insects new to Ireland. *Ir. Nat. J.* **20**: 369-372.

—— (1983) *Dolichopus latelimbatus*, *Hercostomus germanus* and *Rhaphium riparium*: Dolichopodidae (Diptera) new to Ireland. *Ir. Nat. J.* **21**: 83-84.

—— (1983) *Cordilura aemula* and *Microprosopa pallidicauda* new to Ireland, *Trichopalpus fraternus* confirmed as an Irish insect and other Irish records of Scathophagidae (Diptera). *Ir. Nat. J.* **21**: 165-167.

—— (1983) Flies: Diptera. Pp 172-178, 499-506. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally. (includes detailed information on hoverflies)

—— (1983) Checklist and information chart of hoverflies. Pp 501-172, 498-499. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

Speight, M. C. D. (1985) Adjustments to the Irish hoverfly list (Diptera: Syrphidae). *Ir. Nat. J.* **21**: 385-391.

—— (1985) Present-day use of prehistoric pine timber ("bog-deal") by woodboring insects and its faunal implications. *Ir. Nat. J.* **21**: 448-449.

—— (1985) The extinction of indigenous *Pinus sylvestris* in Ireland: relevant faunal data. *Ir. Nat. J.* **21**: 449-453.

—— (1986) *Asaphidion curtum*, *Dorylomorpha maculata*, *Selatosomus melancholicus* and *Syntormon miki*: insects new to Ireland. *Ir. Nat. J.* **22**: 20-23.

—— (1986) *Portevinia maculata* (Fal.): last instar larva and puparium, with notes on the relationship between this hoverfly and its larval host-plant, *Allium ursinum* (Dipt., Syrphidae). *Nouvelle revue d'entomologie* **3**: 37-43.

—— (1986) *Cheilosia nasutula*, *Neocnemodon vitripennis* and *Parasyrphus nigritarsis*: hoverflies (Diptera: Syrphidae) new to Ireland. *Ir. Nat. J.* **22**: 149-152.

—— (1986) *Cheilosia argentifrons* (Diptera: Syrphidae) new to Ireland; *Donacia cinerea* (Coleoptera: Chrysomelidae) and *Palloptera muliebris* (Diptera: Pallopteridae), presence in Ireland confirmed. *Ir. Nat. J.* **22**: 159-160.

—— (1986) Use of invertebrates, as exemplified by certain insect groups, in considering hypotheses about the history of the Irish postglacial fauna. Pp 60-66. *In* Sleeman, D. P., Devoy, R. J. and Woodman, P. C. (eds) *Proceedings of The Postglacial Colonization Conference*. *Occasional Publication of the Irish Biogeographical Society* **Number 1**.

—— (1987) *Achalcus melanotrichus*, *Systenus leucurus* and *S. pallipes* (Diptera: Dolichopodidae) new to Ireland, bred from rot-holes in *Betula*, *Fagus* and *Acer pseudoplatanus*, with a comment on the significance of these records. *Ir. Nat. J.* **22**: 250-252.

—— (1987) Re-affirmation of the status of *Machimus cowini*, (Diptera: Asilidae), as a separate species, with a key to distinguish the male from males of some related species. *Ir. Nat. J.* **22**: 296-304.

—— (1987) The Irish asilid (Diptera) fauna. *Bulletin of the Irish Biogeographical Society* **10**: 56-71.

—— (1988) Interactions between taxonomy, biogeography and conservation, exemplified by the case histories of some Irish insects. Pp 129-140. *In* Moriarty, C. (ed.) *Taxonomy - putting plants and animals in their place.* Royal Irish Academy, Dublin.

—— (1988) *Elgiva solicita*, *Chyroma flava* and *Paykullia maculata*: insects new to Ireland. *Ir. Nat. J.* **22**: 415-416.

—— (1988) *Neoascia podagrica* (Diptera: Syrphidae) in Ireland, with a key to distinguish it from related European species. *Ir. Nat. J.* **22**: 447-452.

—— (1988) *Neoitamus cothurnatus* (Diptera: Asilidae) not an Irish species, and a key to W European *Neoitamus species*. *Ir. Nat. J.* **22**: 485-487.

—— (1988) *Ectaetia platyscelis*, *Setisquamalonchaea setisquama* and *Suillia humilis*: insects (Diptera) new to Ireland, plus some miscellaneous Irish *Suillia* records. *Bulletin of the Irish Biogeographical Society* **11**: 22-27.

—— (1988) Syrphidae known from temperate Western Europe: potential additions to the fauna of Great Britain and Ireland and a provisional species list for N France. *Dipterists Digest* **1**: 2-35.

Speight, M. C. D. (1989) *Sphaerophoria fatarum* in the British Isles (Syrphidae). *Dipterists Digest* **2**: 34.

—— (1990) *Platycheirus occultus* and *P. ramsarensis* in Ireland and correct citation of the original descriptions of these species and the original description of *P. europaeus* (Diptera: Syrphidae). *Ir. Nat. J.* **23**: 276-277.

—— (1990) The puparia of *Xanthogramma festivum* and *Xanthogramma pedissequum* (Syrphidae). *Dipterists Digest* **6**: 29-31.

—— (1990) A second Irish record of *Syntormon luteicornis* Parent. *Dipterists Digest* **7**: 28.

—— (1990) A tale of two texts. *Dipterists Digest* **5**: 2-4. (*Platycheirus*)

—— (1995) *Nanna multisetosa*, *Scoliocentra confusa* and *S. dupliciseta* (Diptera: Scathophagidae, Heleomyzidae), insects new to Ireland from the Connemara National Park, Galway. *Ir. Nat. J.* **25**: 113-115.

—— (1995) Corrigendum to 1992 Annual Exhibition. *British Journal of Entomology and Natural History* **8**: 213. (correction of *Orthonevra brevicornis* Loew to *Portvenia maculata* Fallén)

—— (1996) *Aulogastromyia anisodactyla*, *Lyciella stylata* and *Sapromyza zetterstedti* (Diptera: Lauxaniidae), insects new to Ireland. *Ir. Nat. J.* **25**: 175-176.

—— (1996) *Cheilosia psilophthalma* and *Odinia boletina*: insects new to Ireland and *Sapromyza sexpunctata* confirmed as an Irish species (Diptera: Syrphidae, Odiniidae and Lauxaniidae). *Ir. Nat. J.* **25**: 178-182.

—— (1996) A mass migration of *Episyrphus balteatus* and *Eupeodes corollae* arriving in the south-west and remarks on other migrant hoverflies (Diptera: Syrphidae) in Ireland. *Ir. Nat. J.* **25**: 182-183.

—— (1999) Bush crickets and the Burren, with first records of *Pholidoptera griseoaptera* (De Geer) (Orth.: Tettigoniidae). *Entomologist's Rec. J. Var.* **111**: 139-141. (Diptera included)

—— (1999) *Syrphus rectus* Osten Sacken and its potential implications to the recording of *Syrphus* species. *Dipterists Digest* **6**: 85-91.

—— (1999) *Eriozona syrphoides* (Diptera: Syrphidae), an insect new to Ireland. *Ir. Nat. J.* **26** (1998): 114-116.

—— (2000) *Syrph the net*: a database of biological information about European Syrphidae (Diptera) and its use in relation to the conservation of biodiversity. Pp 156-171. *In* Rushton, B. S. (ed.) *Biodiversity: the Irish dimension*. Royal Irish Academy, Dublin.

—— (2000) The syrphid fauna of western temperate Europe revisited (Diptera, Syrphidae). *Dipterists Digest* **7**: 89-99. (*Epistrophe ochrostoma* confirmed as not an Irish species; several Irish species mentioned)

—— (2000) Some thoughts on corridors and invertebrates: the hoverfly Diptera: Syrphidae) fauna of *Abies/Picea* forests in temperate west/central Europe. Pp 129-135. *Proceedings of the Workshop on ecological corridors for invertbrates: strategies for dispersal and recolonisation in today's agricultural and foresty landscapes.* Neuchatel, May 2000 *Environmental Encounters* **No 45**. Council of Europe, Strasbourg.

—— (2000) Irish Syrphidae (Diptera). Part 1: species accounts and distribution maps. Pp 1-215. *In* Speight, M. C. D., Castella, E., Obrdlik, P. and Ball, S. (eds) *Syrph the Net, the database of European Syrphidae* **18**. Syrph the Net Publications, Dublin.

Speight, M. C. D. (2001) Farms as biogeographical units: 2. The potential role of different parts of the case-study farm in maintaining its present fauna of Sciomyzidae and Syrphidae (Diptera). *Bulletin of the Irish Biogeographical Society* **25**: 248-278.

—— (2002) The last instar larval mouthparts of *Microdon mutabilis* (L.) and *M. myrmicae* Schönrogge *et al* (Dipt.: Syrphidae). *Entomologist's Rec. J. Var.* **114**: 203-205.

—— (2002) Two controversial additions to the Irish insect list: *Microdon myrmicae* Schönrogge *et al*. and *Pipiza festiva* Meigen (Diptera: Syrphidae). *Bulletin of the Irish Biogeographical Society* **26**: 143-153.

—— (2002) An annotated list of the Syrphidae (Diptera) of Pollardstown Fen, Co. Kildare, Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 196-210.

—— (2003) *Microdon myrmicae* Schönrogge *et al* 2002 (Dipt.: Microdontidae): presence in Ireland confirmed. *Entomologist's Rec. J. Var.* **115**: 155-157.

—— (2003) Species account of European Syrphidae (Diptera) 2003. *In* Speight, M. C. D., Castella, E., Sarthou, J.-P. and Ball, S. (eds) *Syrph the Net, the Database of European Syrphidae* **39**. Syrph the Net publications, Dublin. 209pp.

—— (2004) *Achalcus vaillanti*, *Hercostomus chetifer* and *Trypeta artemisiae* (Diptera: Dolichopodidae and Tephritidae), insects new to Ireland. *Ir. Nat. J.* **27**: 428-429.

—— (2004) Predicting impacts of changes in farm management on sciomyzids (Diptera, Sciomyzidae): a biodiversity case study from southern Ireland. *Dipterists Digest* **11**: 147-166.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60.

—— (2004) Towards an understanding of the development and constitution of the Irish postglacial syrphid fauna (Diptera, Syrphidae). *Volucella* **7**: 125-155.

—— (2005) *Platycheirus aurolateralis*, *P. scutatus* and *P. splendidus* (Diptera: Syrphidae) in a Co. Dublin garden, Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 258-261.

—— (2005) *Achalcus britannicus* (Diptera: Dolichopodidae) new to Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 278-279.

—— (2006) Species accounts of European Syrphidae (Diptera), Ferrara 2006. *In* Speight, M. C. D., Castella, E., Sarthou, J.-P. and Monteil, C. (eds) *Syrph the Net, the database of European Syrphidae* **54**. Syrph the Net publications, Dublin. 252pp.

—— (2007) *Rhaphium nasutum* (Diptera: Dolichopodidae), *Pherbellia rozkosnyi* & *Tetanocera montana* (Dip.: Sciomyzidae), insects new to Ireland and *Geomyza balachowski* (Dip.: Opomyzidae), presence in Ireland confirmed. *Entomologist's Rec. J. Var.* **119**: 85-91.

—— (2008) On the arrival in Ireland of *Sphegina sibirica* Stackelberg, 1953 (Diptera: Syrphidae). *Bulletin of the Irish Biogeographical Society* **32**: 90-96.

—— (2008) Database of Irish Syrphidae (Diptera). *Irish Wildlife Manual* **No 36**. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin.

—— (2010) Species accounts of European Syrphidae (Diptera) 2010. *In* Speight, M. C. D., Castella, E., Sarthou, J.-P. and Monteil, C. (eds). *Syrph the Net, the database of European Syrphidae* **59**. Syrph the Net publications, Dublin. 285pp.

Speight, M. C. D. (2013) *Species accounts of European Syrphidae (Diptera), 2013*. Syrph the Net, the database of European Syrphidae **72**. Syrph the Net publications, Dublin. 316pp.

—— (2015) *Melanostoma mellarium* (Meigen, 1822): one step forward in resolving *Melanostoma* identification issues Hoverfly Newsletter 58 pp 4-7. *Bulletin of the Dipterists Forum* **No. 79** (Spring).

—— (2017) *Species accounts of European Syrphidae, 2017.* Syrph the Net **97**. Syrph the Net publications, Dublin. <https://pollinators. ie/wordpress/wp-content/uploads /2018/05 /StN-2017- Species-Accounts.pdf>

Speight, M. C. D., Blackith, R. E. and Blackith, R. M. (1990) *Antichaeta brevipennis, Leucophenga maculata*, *Polyporivora picta* and *Tephrochlamys tarsalis* (Diptera): insects new to Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 131-136.

Speight, M. C. D., Blackith, R. M. and Blackith, R. E. (1995) *Bathycranium*: synonymised with *Syntormon*, distinctions between *Parasyntormon* and *Syntormon* discussed and *S. bicolorellus* and *S. luteicornis* redescribed. *Insecta Mundi* **9**: 351-362.

Speight, M. C. D., Blackith, R. M. and de Courcy Williams, M. (1992) *Calliopum elisae*, *Hercostomus nanus*, *Psacadina verbekei*, *Systenus alpinus* and *Zabrachia tenella* (Diptera), insects new to Ireland. *Ir. Nat. J.* **24**: 147-151.

Speight, M. C. D., Brown, M. J. F. and Stout, J. C. (2004) *Platycheirus aurolateralis* and *P. splendidus* (Diptera: Syrphidae), insects new to Ireland and their separation from related species. *Ir. Nat. J.* **27**: 413-417.

Speight, M. C. D. and Castella, E. (2001) An approach to interpretation of lists of insects using digitised biological information about the species. *Journal of Insect Conservation* **5**: 131-139.

—— (2004) StN Database: content and glossary of terms. *In* Speight, M. C. D., Castella, E., Sarthou, J.-P. and Monteil, C. (eds) *Syrph the Net, the database of European Syrphidae* **45**. Syrph the Net publications, Dublin. 74pp.

Speight, M. C. D., Castella E. and Obrdlik P. (2003) Macrohabitats preferences of European Syrphidae (Diptera). *In* Speight, M. C. D., Castella, E., Sarthou, J.-P. and Ball, S. (eds) *Syrph the Net, the Database of European Syrphidae* **40**. Syrph the Net publications, Dublin. 552pp.

Speight, M. C. D., Castella, E., Obrdlik, P. and Ball, S. (2001) *Syrph the Net on CD* **Issue 1**. *The data base of European Syrphidae*. Syrph the Net Publications, Dublin.

Speight, M. C. D., Castella, E., Sarthou, J.-P. and Monteil, C. (eds) (2004) *Syrph the Net, the database of European Syrphidae.* Syrph the Net publications, Dublin.

—— (2004) *Syrph the Net on CD.* **Issue 2**. *The database of European Syrphidae.* Syrph the Net Publications, Dublin.

Speight, M. C. D. and Chandler, P. J. (1983) Irish Otitidae and Platystomatidae (Diptera) including a key to the genera known in Ireland and/or Great Britain. *Ir. Nat. J.* **21**: 130-136.

—— (1995) *Paragus constrictus*, *Pteromicra pectorosa* and *Stegana similis*: insects new to Ireland and *Stegana coleoptrata*, presence in Ireland confirmed (Diptera). *Ir. Nat. J.* **25**: 28-32.

Speight, M. C. D., Chandler, P. J., Irwin, A. G. and de Courcy Williams, M. (1985) A provisional list of Irish Psilidae (Diptera). *Bulletin of the Irish Biogeographical Society* **8**: 2-12.

Speight, M. C. D., Chandler, P. J. and Nash, R. (1975) Irish Syrphidae (Diptera): notes on the species and an account of their known distribution. *Proceedings of the Royal Irish Academy* **75**B: 1-80.

Speight, M. C. D. and Claussen, C. (1987) Redefinition of *Cheilosia ahenea* and *C. argentifrons*, with records extending the known range of these species in Western Europe (Dipt., Syrphidae). *Annales de la Société entomologique de France (N.S.)* **25**: 299-308.

Speight, M. C. D. and Cogan, B. H. (1979) *Acrometopia wahlbergi*, *Clusiodes caledonica* and *Stigmella catharticella*: insects new to Ireland. *Ir. Nat. J.* **19**: 401-403.

Speight, M. C. D. and de Courcy Williams, M. (1992) Records of 23 species of Dolichopodidae (Diptera) whose presence in Ireland requires reconfirmation. *Ir. Nat. J.* **24**: 17-20.

Speight, M. C. D., de C. Williams, M. and Withers, P. (1977) *Pachygaster minutissima*, *Psacadina zernyi* and *Xylota tarda*: insects new to Ireland. *Ir. Nat. J.* **19**: 354-355.

Speight, M. C. D. and Gittings, T. (2006) Records of hoverflies (Diptera: Syrphidae) from Counties Clare and Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **30**: 334-347.

Speight, M. C. D. and Goeldlin de Tiefenau, P. (1990) Keys to distinguish *Platycheirus angustipes*, *P. europaeus*, *P. occultus* and *P. ramsarensis* (Dipt., Syrphidae) from other *clypeatus* group species known in Europe. *Dipterists Digest* **5**: 5-18.

Speight, M. C. D. and Good, J. A. (2001) Farms as biogeographical units: 3. The potential of natural/semi-natural habits on the farm to maintain its syrphid fauna under various management regimes. *Bulletin of the Irish Biogeographical Society* **25**: 279-291.

Speight, M. C. D., Good, J. A. and Castella, E. (2002) Predicting the changes in farm syrphid faunas that could be caused by changes in farm management regimes (Diptera, Syrphidae). *Volucella* **6**: 125-135.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Speight, M. C. D. and Irwin, A. G. (1978) Irish *Paragus* (Diptera: Syrphidae), including a key to British Isles species. *Ir. Nat. J.* **19**: 198-199.

Speight, M. C. D. and Knutson, L. V. (2012) Species accounts for Sciomyzidae and Phaeomyiidae (Diptera) known from the Atlantic zone of Europe. *Diperists Digest* **19**: 1-38.

Speight, M. C. D. and Lavery, T. A. (1992) *Renocera stroblii*, *Rhaphium auctum* and *Teuchophorus monacanthus* (Diptera), insects new to Ireland. *Ir. Nat. J.* **24**: 116-117.

Speight, M. C. D. and Legrand, J. (1984) *Coenagrion lunulatum* (Odonata): morphology of the female and notes on a second Irish colony. *Ir. Nat. J.* **21**: 237-242.

Speight, M. C. D. and Meuffels, H. J. G. (1989) *Campsicnemus compeditus*, *Melanostolus melancholicus*, *Syntormon setosus* and *Systenus pallidus* (Diptera: Dolichopodidae), insects new to Ireland. *Ir. Nat. J.* **23**: 92-97.

Speight, M. C. D., Monteil, C., Castella, E. and Sarthou, J.-P. (2008) StN 2008. *In* Speight, M. C. D., Castella, E., Sarthou, J.-P. and Monteil, C. (eds) *Syrph the Net on CD* **Issue 6**. *The database of European Syrphidae*. Syrph the Net Publications, Dublin.

Speight, M. C. D. and Nash, R. (1977) *Pherbellia argyra*, *P. fuscipes* and *Tetanocera silvatica*: Sciomyzidae (Diptera) new to Ireland, together with other sciomyzid records. *Ir. Nat. J.* **19**: 38-43.

—— (1993) *Chrysotoxum cautum*, *Ctenophora ornata*, *C. pectinicornis*, *Helophilus trivittatus* and *Mesembrina mystacea* (Diptera), insects new to Ireland. *Ir. Nat. J.* **24**: 231-236.

Speight, M. C. D. and Nelson, B. (2000) The changing status of *Helophilus trivittatus* (Fabr.) (Diptera: Syrphidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 171-174.

Speight, M. C. D. and O'Connor, J. P. (1981) The Irish Ptychopteridae (Diptera). *Bulletin of the Irish Biogeographical Society* **5**: 29-37, figure 1.

Speight, M. C. D., Sarthou, J.-P. and Levy, D. A. (2007) *Eupeodes goeldlini* (Dip.: Syrphidae) new to Britain, France and Ireland, with a key to separate it from related Atlantic zone species. *Entomologist's Rec. J. Var.* **119**: 213-219.

Speight, M. C. D. and Smith, K. G. V. (1975) A key to males of the British species of *Neocnemodon* Goffe (Dipt: Syrphidae). *Entomologist's Rec. J. Var.* **87**: 150-153.

Speight, M. C. D. and van Appelghem, C. (2018) *Dasysyrphus neovenustus* Soszyński, Mielczarek & Tofilski, (Diptera, Syrphidae), presence in Britain, France and Ireland. *Dipterists Digest* **25**: 31-34.

Speight, M. C. D. and Vockeroth, J. R. (1988) *Platycheirus amplus*: an insect new to Ireland not previously recorded from Europe (Diptera: Syrphidae). *Ir. Nat. J.* **22**: 518-521.

Spencer, K. A. (1953) Notes on the British Agromyzidae (Dipt.) - 1. *Entomologist's mon. Mag.* **89**: 296-297.

—— (1954) Observations on the British Agromyzidae (Dipt.) -1. *Entomologist's Gazette* **5**: 183-188.

—— (1971) Notes on a revision of the British Agromyzidae (Diptera), including the description of 14 new species. *Entomologist's Gazette* **22**: 141-195.

—— (1972) Diptera Agromyzidae. *Handbooks for the Identification of British Insects* **10**(5g): 1-136.

—— (1973) A new species of Agromyzidae (Diptera) mining bracken (*Pteridium aguilinum* L.). *Entomologist's Gazette* **24**: 315-317.

—— (1992) *Flycatcher. Memoirs of an amateur entomologist.* SPB Academic Publishing, The Hague. (Irish Agromyzidae including new records, pp 111-113)

Spooner, B. M. and Bowdrey, J. P. (2012) Checklist of British galls and gall-causing organisms: 8. Diptera (excluding Cecidomyiidae): preliminary list. *Cecidology* **27**: 29-60.

Stanley, D. A. and Stout, J. C. (2013) Quantifying the impacts of bioenergy crops on pollinating insect abundance and diversity: a field-scale evaluation reveals taxon-specific responses. *Journal of Applied Ecology* **50**: 335-344.

Starý, J. (2007) Nomenclatural changes in West Palaearctic Limoniidae and Pediciidae (Diptera), II. *Časopis Slezského muzea v Opavě (A)* **56**: 23-36. (*Idioptera pulchella* (Meigen), *Dicranota lucidipennis* (Edwards))

Staunton, J., Williams, C. D., McDonnell, R. J., Maher, C., Knutson, L. and Gormally, M. J. (2008) *Pherbellia* (*Oxytaenia*) *stackelbergi* Elberg, 1965 (Dip.: Sciomyzidae) new to the British Isles, with comments on generic and sub-generic placement. *Entomologist's Rec. J. Var.* **120**: 173-177.

Stelfox, A. W. (1923) An enemy of the wireworm. *Ir. Nat.* **32**: 44. (Col., Dipt.)

—— (1931) A dipterous parasite of woodlice. *Ir. Nat. J.* **3**: 232.

—— (1935) On the rediscovery of two flies formerly reported from Ireland. *Ir. Nat. J.* **5**: 163-165.

—— (1936) The prey of *Crabro styrius* in Ireland. *Ir. Nat. J.* **6**: 24.

—— (1942) A new Irish mosquito. *Ir. Nat. J.* **8**: 44.

—— (1968) An error of statement concerning a crane fly. *Ir. Nat. J.* **16**: 80.

—— (1970) A crane-fly at the Slade of Saggart, Co. Dublin. *Ir. Nat. J.* **16**: 281.

Stendall, J. A. S. (1933) Swarms of the fly *Fucomyia frigida* Hal. in Co. Derry. *Ir. Nat. J.* **4**: 138.

—— (1940) Dipterous parasite of Swift. *Ir. Nat. J.* **7**: 304.

Stephens, N. E. (1910) Additional record of *Chelifer cancroides*. *Ir. Nat.* **19**: 138.

Stephenson, J. W. and Knutson, L. V. (1970) The distribution of snail-killing flies (Dipt., Sciomyzidae) in the British Isles. *Entomologist's mon. Mag.* **106**: 16-21.

Stewart, E. A. (1878) Plague of flies at Kilrea, Ireland. *Science Gossip* **14**: 140-141.

Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast.

Stout, J. C. (2007) Pollination of invasive *Rhododendron ponticum* in Ireland. *Apidologie* **38**: 198-206.

Stubbs, A. (2008) Some notes on the biogeography of British craneflies. *Cranefly recording scheme newsletter* **16**: 1-5. *Bulletin of the Dipterists Forum* **No. 65** (Spring).

Stubbs, A. and Drake, M. (2013) Recording scheme database summary. p. 6. *In* Stubbs, A. and Drake, M. (eds) Soldierflies and Allies Recording Scheme - Newsletter 1. *Bulletin of the Dipterists Forum* **No. 76** (Autumn).

Stubbs, A. E. (1976) (exhibits: *Nephrotoma dorsalis* (F.), Banteer, Co. Cork). *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 113.

—— (1982) An identification guide to British Clusiidae. *Proceedings and Transactions of the British Entomological and Natural History Society* **15**: 89-93.

—— (1996) *British hoverflies. An illustrated identification guide.* 2nd (revised and enlarged) supplement. British Entomological and Natural History Society, Reading. 55pp.

—— (2000) An update on the British hoverfly list. *British Journal of Entomology and Natural History* **13**: 127-133.

Stubbs, A. E. (ed.) (1992) *Provisional atlas of the long-palped craneflies (Diptera: Tipulinae) of Great Britain and Ireland.* Biological Records Centre, Huntingdon. 134pp.

—— (1993) *Provisional atlas of the ptychopterid craneflies (Diptera: Ptychopteridae) of Britain and Ireland.* Biological Records Centre, Huntingdon. 34pp.

Stubbs, A. E. and Chandler, P. J. (1973) *Molophilus lackschewitzianus* Alexander 1952 (Diptera: Tipulidae) new to the British Isles. *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 18-19.

Stubbs, A. E. and Drake, M. (1981) *British Soldierflies and their allies. An illustrated guide to their identification and ecology covering all flies (Diptera) in the families Acroceridae, Asilidae, Athericidae, Bombyliidae, Rhagionidae, Scenopinidae, Stratiomyidae, Tabanidae, Therevidae, Xylomyidae and Xylophagidae*. British Entomological and Natural History Society, Reading.

—— (2014) *British Soldierflies and their allies.* Second edition. British Entomological and Natural History Society, Reading.

Stubbs, A. E. and Falk, S. J. (1983) *British hoverflies. An illustrated identification guide.* British Entomological and Natural History Society, London.

—— (2002) *British hoverflies*. British Entomological and Natural History Society, Reading. Second edition. 469pp.

Stur, E. and Ekrem, T. (2006) A revision of west Palaearctic species of the *Micropsectra atrofasciata* species group (Diptera: Chironomidae). *Zoological Journal of the Linnean Society* **146**: 165-225.

Sullivan, C. M., Shiel, C. B., McAney, C. M. and Fairley, J. S. (1993) Analysis of the diets of Leisler's *Nyctalus leisleri*, Daubenton's *Myotis daubentoni* and pipistrelle *Pipistrellus pipistrellus* bats in Ireland. *Journal of Zoology, London* **231**: 656-663. (including *Nycteribia kolenati*)

Takács, V. and Tokeshi, M. (1993) The diet of *Procladius signatus* (Diptera: Chironomidae) in Lough Neagh. *Ir. Nat. J.* **24**: 282-283.

—— (1994) Spatial distribution of two chironomid species in the bottom sediment of Lough Neagh, Northern Ireland. *Aquatic Insects* **16**: 125-131.

Tanasijtshuk, V. N. (1984) Family Chamaemyiidae (Ochthiphilidae). Pp 220-232. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1988) Family Pipunculidae. Pp 230-245. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **8**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Theobald, F. V. (1892) *An account of British flies (Diptera)*. E. Stock, London.

Theowald, B. (1978) Tipulidae und Cylindrotomidae. Pp 363-366. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Thomas, A. (1978) Athericidae et Rhagionidae. Pp 477-478. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Thomas, S. J. (2019) *Liriomyza angulicornis* (Malloch) (Diptera, Agromyzidae) new to Ireland. *Dipterists Digest* **25** (2018): 142.

Thompson, F. C. and Torp, E. (1986) Synopsis of the European species of *Sphegina* Meigen (Diptera: Syrphidae). *Entomological Scandinavica* **17**: 235-269. (*S. clunipes* Fallén; *S. elegans* Schummel)

Thompson, G. B. (1937) The parasites of British birds and mammals, XVII. A bibliography of the previous records of Nycteribiidae, together with additional records and notes. *Entomologist's mon. Mag.* **73**: 274-279.

—— (1938) The parasites of British birds and mammals. Further records of *Ornithomyia* spp. from British birds, together with notes. *Entomologist's mon. Mag.* **74**: 129-133.

—— (1955) The parasites of British birds and mammals - XXVIII. Records of *Ornithomya* spp. (Dipt., Hippoboscidae) collected during 1952. *Entomologist's mon. Mag.* **91**: 4-5.

Thompson, G. M., Jess, S. and Murchie, A. K. (2012) A review of African horse sickness and its implications for Ireland. *Irish Veterinary Journal* **65**, issue 9. <http://www.irishvetjournal.org/content/65/1/9> (*Culicoides*)

Thompson, G. M., Jess, S. and Murchie, A. K. (2013) Differential emergence of *Culicoides* (Diptera: Ceratopogonidae) from on-farm breeding substrates in Northern Ireland. *Parasitology* **140**: 1-10.

Tierney, D. and Kelly-Quinn, M. (2005) *Simulium tuberosum* Lundström, 1911 (Diptera: Simuliidae) - a blackfly species new to Ireland, with a note on its identification. *Entomologist's Gazette* **56**: 51-52.

Tierney, D., Trodd, W. and Kelly-Quinn, M. (2003) A note on ongoing work on blackfly species (Diptera: Simuliidae) and their distribution in Irish freshwater habitats. *British Simuliid Group Bulletin* **21**: 21-22.

—— (2005) An update on blackfly species (Diptera: Simuliidae) and their distributions in Irish freshwater habitats. *Bulletin of the Irish Biogeographical Society* **29**: 86-126.

Todd, W. D. M. (1993) Plant health legislation in Northern Ireland in 1990. Pp 153-160. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (South American leaf-miner)

Tokeshi, M. (1990) Chironomid fauna of Lough Neagh, Northern Ireland (Diptera: Chironomidae). *Entomologist's Gazette* **41**: 145-148.

—— (1991) On the feeding habits of *Thienemannimyia festiva* (Diptera: Chironomidae). *Aquatic Insects* **13**: 9-16.

Toner, P. F. and O'Connell, C. (1971) Water quality investigations in the River Blackwater and River Martin, Co. Cork 1966-1969. *Irish Fisheries Investigations Series A* **No. 8**.

Tonguç, A. and Barlas, M. (2011) First record of Xanthochlorinae and new records of Dolichopodinae in the Turkish Dolichopodidae (Diptera) fauna. *The Journal of the Entomological Research Society* **13**: 117-121. (*Xanthochlorus tenellus*)

Tonnoir, A. L. (1940) A synopsis of the British Psychodidae (Dipt.) with descriptions of new species. *Transactions of the Society of British Entomology* **7**: 21-64.

Trevelyan, H. (1911) A rare fly in Co. Fermanagh. *Ir. Nat.* **20**: 136.

—— (1911) *Caricea means* in Co. Donegal. *Ir. Nat.* **20**: 164.

Trodd, W. R. and Murray, D. A. (2004) *Cryptotendipes pflugfelderi* Reiss, 1964 (Diptera: Chironomidae) in the Turraun Nature Reserve and the first record from Ireland. *Entomologist's Gazette* **55**: 171-172.

Tuffen, M. and Wisdom, R. (2019) Honey Locust Podgall Midge (*Dasineura gleditchiae*) (Diptera: Cecidomyiidae) new to Ireland. *Ir. Nat. J.* **36**: 149-150.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management*. Royal Irish Academy, Dublin.

Ujvárosi, L. (2004) New species of Limoniidae (Diptera) for the Hungarian fauna. *Folia Entomologica Hungarica* **65**: 117-120. (*Molophilus czizeki*)

—— (2005) Additions to the Cylindrotomidae, Limoniidae and Pediciidae species (Diptera) in Romania and Bulgaria. *Entomologica Romanica* **10**: 65-70. (*Phylidorea abdominalis*, *Dicranomyia omissinervis*, *Orimarga juvenilis*)

University College Dublin (2020) The Chironomidae (Diptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/199>

Vaillant, F. (1978) Psychodidae. Pp 378-385. *In* Illies, J. (ed.) *Limnofauna Europaea.*

—— (1978) Thaumaleidae. Pp 459-450. *In* Illies, J. (ed.) *Limnofauna Europaea.*

—— (1978) Empididae. Pp 465-469. *In* Illies, J. (ed.) *Limnofauna Europaea.*

—— (1978) Dolichopodidae. Pp 470-474. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Vaillant, F. and Withers, P. (1990) The fourth-stage larva of *Atrichobrunettia angustipennis* (Tonnoir) (Diptera: Psychodidae Psychodinae). *Dipterists Digest* **7**: 8-18.

—— (1992) *Panimerus goodi* sp. n. from Ireland, with a description of other members of the *maynei* complex (Diptera: Psychodidae). *Ir. Nat. J.* **24**: 27-28.

—— (1993) Quelques *Pericoma* du groupe *trifasciata* (Diptera: Psychodidae, Psychodinae). *Mitteilungen der Schweizerischen Entomologischen Gesellschaft* **66**: 99-112. (*P. calcilega* Feurborn)

Valentine, J., Blackith, R. E. and Blackith, R. M. (1991) *Kimosina empirica*, *Leptocera cryptochaeta*, *Spelobia clunipes*, *S. nana*, *S. talparum*, *S. palmata* and *Telomerina flavipes* (Diptera: Sphaeroceridae) flies new to Ireland. *Bulletin of the Irish Biogeographical Society* **14**: 105-108.

van Asch, N., Lutz, A. F., Duijkers, M. C. H., Heiri, O., Brooks, S. J. and Hoek, W. Z. (2012) Rapid climate change during the Weichselian Lateglacial in Ireland: chironomid-inferred summer temperatures from Fiddaun, Co. Galway. *Palaeogeography, Palaeoclimatology, Palaeoecology* **27**: 531-543.

van der Weele, R. (2013) *Tephrochlaena oraria*, een nieuwe afvalvlieg voor de Nederlandse fauna (Diptera: Heleomyzidae). *Nederlandse Faunistische Mededelingen* **40**: 35-38.

Vaux, A. G. C., Dallimore, T., Cull, B., Schaffner, F., Strode, C., Pflüger, V., Murchie, A. K., Rea, I., Newham, Z., Mcginley, L., Catton, M., Gillingham, E. L. and Medlock, J. M. (2019) The challenge of invasive mosquito vectors in the U.K. during 2016-2018: a summary of the surveillance and control of *Aedes albopictus*. *Medical and Veterinary Entomology* **33**: 443-452.

Vaux, A. G. C., Murphy, G., Baskerville, N., Burden, G., Convery, N., Crossley, L., Dettman, L., Haden, P., Jarrold, L., Massey, C., Napier, K. and Pocknell, I. (2011) Monitoring for invasive and endemic mosquitoes at UK ports. *European Mosquito Bulletin* **29**: 133-140. (Belfast)

Venturi, F. (1978) Syrphidae. Pp 477-481. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Verberk, W. C. E. P., van Duinen, G.-J. A., Moller Pillot, H. K. M. and Esselink, H. (2003) *Lasiodiamesa gracilis* (Chironomidae: Podonominae) new for the Dutch fauna. *Entomologische Berichten* **63**: 40-42.

Verrall, G. H. (1875) Notes on some British Dolichopodidae, with descriptions of new species. *Entomologist's mon. Mag.* **12**: 142-148.

—— (1886) List of British Tipulidae, &c., ("Daddy-long legs"), with notes. *Entomologist's mon. Mag.* **23**: 117-125.

—— (1901) *Platypezidae, Pipunculidae, and Syrphidae of Great Britain: and Catalogue of the Platypezidae (Pipunculidae, Syrphidae) of the European district, with references and synonymy*. British flies 8. Gurney & Jackson, London.

—— (1904-1905) List of British Dolichopodidae, with tables and notes. *Entomologist's mon. Mag.* **40**: 223-228, 241-245. **41**: 167-172, 188-196, 247-252.

—— (1909) *Statiomyidae and succeeding families of the Diptera Brachycera of Great Britain*. British flies 5. Gurney & Jackson, London.

Verves, Y. G. (1986) Family Sarcophagidae. Pp 58-193. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **12**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Verves, Y. G. and Khrokalo, L. A. (2006) Review of Macronychiinae (Diptera, Sarcophagidae) of the world. *Vestnik zoologii* **40**: 219-239.

Vockeroth, J. R. (1978) Scathophagidae. P. 489. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Vujić, A., Radenković, S., Trifunov, S. and Nikolić, T. (2013) Key for European species of the *Cheilosia proxima* group (Diptera, Syrphidae) with a description of a new species. *Zookeys* **269**: 33-50.

Wagner, R. (1978) Chaoboridae, Dixidae. Pp 387-389. *In* Illies, J. (ed.) *Limnofauna Europaea.*

—— (1982) Palaearctic moth-flies: a review of the Trichomyiinae (Psychodidae). *Systematic Entomology* **7**: 357-365. (*Trichomyia urbica*)

—— (1984) Notes on Empididae (2). *Wiedemannia insularis* Collin, a synonym of *Wiedemannia rhynchops* (Nowicki). *Aquatic Insects* **6**: 70.

—— (1985) A revision of the genus *Heleodromia* (Diptera, Empididae) in Europe. *Aquatic Insects* **7**: 33-43. (*H. immaculata* Haliday)

—— (1990) Family Psychodidae. Pp 11-65. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **12**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

—— (1990) Family Chaoboridae. Pp 71-74. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera*. **2**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest. (type - locality of *Mochlonyx martinii* Edwards is Killarney (Upper Lake))

Wainwright, C. J. (1928) The British Tachinidae (Diptera). *Transactions of the Royal Entomological Society of London* **76**: 139-254.

Walker, F. (1836) Notes on Diptera. *The Entomological Magazine* **4**: 113-117 (*Mycetophila domestica* Meigen and *M. crassicornis* Stann.), 226-230. (*Cyrtoma atra* Meigen and *Hilara litorea* Fallén)



Walker, F. (1851-1863) *Insecta Britannica Diptera*. 3 volumes. Reeve and Benham, London. (the characters and synoptical tables of (a) the order (Volume I: 1-9); (b) the Empidae (Volume I: 85-88); (c) the Syrphidae (Volume I: 234-237); chapters on (a) the Dolichopidae (Volume I: 144-221); (b) the Borborides (Volume II: 171-184); (c) the Hydromyzides (Volume II: 247-269); the addenda and corrigenda (Volume III: xixvi); (contributions to the plates of J. O. Westwood); (separates the "Britannic" Diptera into those from England, Scotland, Wales and Ireland e.g. (E.S.W.I.))

Wallace, P. F. and O'Connor, J. P. (1997) *Palloptera muliebris* (Harris) (Dipt., Pallopteridae) discovered in Dublin City. *Entomologist's mon. Mag.* **133**: 114.

Wang, M.-F., Zhang, D. and Wang, R.-R. (2008) The *mollissima*-subgroup of the genus *Fannia* Robineau-Desvoidy (Diptera: Fanniidae), descriptions of seven new species. *Insect Systematics & Evolution* **39**: 87-106. (*Fannia mollissima*)

Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Warrington, B. P. (2019) Additions to the Irish list of Agromyzidae (Diptera). *Dipterists Digest* **25** (2018): 132-134.

—— (2020) Two species of Agromyzidae (Diptera) added to the Irish checklist. *Dipterists Digest* **27**: 40.

Watson, J. E., Brooks, S. J., Whitehouse, N. J., Reimer, P. J., Birks, H. J. B. and Turney, C. M. (2010) Chironomid-inferred Late-Glacial summer air temperatures from Lough Nadourcan, Co. Donegal, Ireland. *Journal of Quaternary Science* **25**: 1200-1210.

Webb, A. (1876) Mosquitoes in Ireland. *Entomologist* **9**: 93.

White, I. M. (1988) Tephritid flies. Diptera: Tephritidae. *Handbooks for the Identification of British Insects* **10**(5a): 1-134.

Williams, C. and Gormally, M. (2009) Wasps. Parasitoid wasp new to science (from a) turlough in Co. Mayo. *Biodiversity Ireland* **Issue 3**: 10. (*Tetanocera arrogans*)

Williams, C. D., Gormally, M. J. and Knutson, L. (2010) Very high population estimates and limited movement of snail-killing flies (Diptera: Sciomyzidae) on an Irish turlough (temporary lake). *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 81-94.

Williams, C. D., Mc Donnell, R. J., Maher, C., Mulkeen, C. J. and Gormally, M. J. (2007) Faunistic data for the genus *Tetanocera* (Diptera: Sciomyzidae) in the west of Ireland. *Bulletin of the Irish Biogeographical Society* **31**: 268-295.

Williams, C. D., Moran, J., Doherty, O., Mc Donnell, R. J., Gormally, M. J., Knutson, L. V. and Vala, J.-C. (2009) Factors affecting Sciomyzidae across a transect at Skealoghan turlough (Co. Mayo, Ireland). *Aquatic Ecology* **43**: 117-133.

Williams, C. D., Sheahan, J. and Gormally, M. J. (2009) Hydrology and management of turloughs (temporary lakes) affect marsh fly (Sciomyzidae: Diptera) communities. *Insect Conservation and Diversity* **2**: 270-283.

Wilson, G. (1933) The insect menace. *Proceedings of the Belfast Naturalists' Field Club* **9**: 244-245.

—— (1937) Notes on mosquitoes of Belfast. *Ir. Nat. J.* **6**: 166-167.

Wilson, R. S. and Ruse, L. P. (2005) *A guide to the identification of genera of chironomid pupal exuviae occurring in Britain and Ireland (including common genera from Northern Europe) and their use in monitoring lotic and lentic fresh waters*. Freshwater Biological Society. Special Publication **No. 13**.

Withers, P. (1979) *Colobaea punctata* Lundbeck, a sciomyzid (Diptera) new to Ireland. *Ir. Nat. J.* **19**: 363.

—— (1985) A further locality for *Chorisops nagatomii* (Diptera: Stratiomyiidae) in Ireland. *Ir. Nat. J.* **21**: 465.

——(1987) The British species of the genus *Suilla* (Diptera, Heleomyzidae), including a species new to science. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 91-104.

—— (1987) Some moth-flies (Diptera: Psychodidae) reared from tree rot-holes in Ireland including a first breeding record of *Telmatoscopus advenus*. *Ir. Nat. J.* **22**: 201-202.

—— (1989) Some further records of Irish rot-hole moth-flies (Diptera: Psychodidae), with a first record for *Telmatoscopus rothschildii*, and a figure of the male terminalia of that species. *Ir. Nat. J.* **23**: 16-17.

—— (1989) Moth flies. Diptera: Psychodidae. *Dipterists Digest* **4**: 1-83.

—— (2002) Thirty-nine species of Diptera new to Ireland, including a species of Psychodidae new to the British Isles. *Dipterists Digest* **9**: 113-119.

—— (2002) *Stenomicra cogani* Irwin (Diptera, Stenomicridae). A family, genus and species new to Ireland. *Dipterists Digest* **9**: 120.

—— (2006) Some records of rare or little known species of Pipunculidae (Diptera) in Britain and Ireland. *Dipterists Digest* **13**: 26.

—— (2006) The identity of the British species of *Atrichobrunettia* Satchell (Diptera, Psychodidae). *Dipterists Digest* **13**: 47-48.

Withers, P. and O'Connor, J. P. (1992) A preliminary account of the Irish species of moth fly (Diptera: Psychodidae). *Proceedings of the Royal Irish Academy* **92**B: 61-77.

Wood, R. B., Andrew, T. E. and Carter, C. E. (2000) Lough Neagh - eutrophic, temperate, shallow - behaving as an oligotrophic, cold deep lake? *Verh. Internat. Verein. Limnol* **27**: 2240-2242. (*Monodiamesia ekmani*)

Wood-Baker, C. S. (1964) Aphidivorous Cecidomyiidae (Dipt.) an investigation of the occurrence and bionomics of aphid-eating gall-midges, mainly in Britain. *Entomologist's mon. Mag.* **100**: 212-231

Woodward, G., Bonada, N., Feeley, H. B. and Giller, P. S. (2015) Resilience of a stream community to extreme climatic events and long-term recovery from a catastrophic flood. *Freshwater Biology* **60**: 2497-2510.

Wright, D. W., Geering, Q. A. and Ashby, D. G. (1946-1947) The insect parasites of the carrot fly *Psila rosae* Fab. *Bulletin of Entomological Research* **37**: 507-529.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.

Wyatt, N. P. (1991) Notes on Sarcophagidae (Dipt.), including one species new to Ireland, one new to science from England and Malta and a change in the British list. *Entomologist's mon. Mag.* **127**: 1-6.

Wyatt, N. P. and Falk, S. J. (1995) British species of *Metopia* (Diptera: Sarcophagidae) with two species new to Britain. *British Journal of Entomology and Natural History* **8**: 33-35. (*M. campestris*)

Yerbury, J. W. (1902) A list of Diptera met with in Cork and Kerry during the Summer of 1901, with some notes on their habits, etc. *Ir. Nat.* **11**: 74-92.

—— (1903) (exhibited *Pelidnoptera nigripennis*). *Proceedings of the Entomological Society of London* **1903**: 61-62.

Zuska, J. (1984) Family Piophilidae. Pp 234-239. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Zuska, J. and Pont, A. C. (1984) Family Sepsidae. Pp 154-167. *In* Soós, A. and Papp, L. (eds) *Catalogue of Palaearctic Diptera* **9**. Elsevier, Amsterdam/Akadémiai Kiadó, Budapest.

Zwick, H. (1978) Simuliidae. Pp 396-403. *In* Illies, J. (ed.) *Limnofauna Europaea.*

—— (1978) Blephariceridae. Pp 361-362. *In* Illies, J. (ed.) *Limnofauna Europaea.*



CHAPTER 8. *EPHEMEROPTERA

Anon. (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54.

Anderson, R. (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Baars, J.-R., Lyons, R. and Kelly-Quinn, M. (2005) The first records of *Ameletus inopinatus* Eaton, 1887 (Ephemeroptera: Ameletidae) in upland streams in Co. Kerry, Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 308-311.

Bauernfeind, E. and Soldán, T. (2012) *The mayflies of Europe (Ephemeroptera).* Apollo Books, Ollerup.

Bracken, J., Norton, M. and Phillips, H. (1991) A progress report on the rehabilitation of the Kilmastulla River, Co. Tipperary (1986-1988). Pp 115-134. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Bracken, J. J. and Murray, D. A. (1973) Insect emergence data from four small lakes in the South and Southwest of Ireland. *Irish Fisheries Investigations Series A* **No. 11**.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Clabby, K. J. and Bracken, J. J. (1976) The Glencullen River Survey. *Scientific Proceedings of the Royal Dublin Society Ser. B* **3**: 355-370.

Connolly, B. and McCarthy, T. K. (1993) Mayflies (Ephemeroptera) of the Corrib catchment, Ireland. *In* Costello, M. J. and Kelly, K. S. (eds) *Biogeography of Ireland: past, present and future. Occasional Publication of the Irish Biogeographical Society* **Number 2**: 57-71.

Dauod, H. A., Bolger, T. and Bracken, J. J. (1985) Studies on the minnow *Phoxinus phoxinus* (L.) from an upland Irish reservoir system. *Irish Fisheries Investigations Series A* **No. 26**: 3-22.

—— (1985) Studies on the three-spined stickleback *Gasterosteus aculeatus* L. from an upland reservoir system. *Irish Fisheries Investigations Series A* **No. 27**: 3-16.

—— (1986) Age, growth and diet of the brown trout *Salmo trutta* L. in the Roundwood Reservoir system. *Irish Fisheries Investigations Series A* **No. 28**: 3-21.

Davis, S. J., Mellander, P.-E., Kelly, A.-M., Matthaei, C. D., Piggott, J. J. and Kelly-Quinn, M. (2018) Multiple-stressor effects of sediment, phosphorus and nitrogen on stream macroinvertebrate communities. *Science of the Total Environment* **637**: 577-587.

de Eyto, E., Doyle, B., King, N., Kilbane, T., Finlay, R., Sibigtroth, L., Graham, C., Poole, R., Ryder, E., Dillane, M. and Jennings, E. (2020) Characterisation of salmonid food webs in the rivers and lakes of an Irish peatland ecosystem. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 1-17.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Doherty, D. and McCarthy, T. K. (2000) The metazoan parasites, diets and general biology of arctic char, *Salvelinus alpinus* L., in two Irish lakes. *Verh. Internat. Verein. Limnol.* **27**: 1056-1061.

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53)

Eaton, A. E. (1868) An outline of a re-arrangement of the genera of Ephemeridae. *Entomologist's mon. Mag.* **5**: 82-91.

—— (1888) A concise generical synopsis, with an annotated list, of the species of British Ephemeridae. *Entomologist's mon. Mag.* **25**: 29-33.

Elliott, J. M. and Humpesch, U. H. (1983) A key to the adults of the British Ephemeroptera with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **No. 47**: 1-101.

—— (2010) Mayfly larvae (Ephemeroptera) of Britain and Ireland: keys and a review of their ecology. *Scientific Publications of the Freshwater Biological Association* **No. 66**: 1-152.

Elliott, J. M., Humpesch, U. H. and Macan, T. T. (1988) Larvae of the British Ephemeroptera: a key with ecological notes. *Scientific Publications of the Freshwater Biological Association* **No. 49**: 1-145.

Fahy, E. (1973) Observations on the growth of Ephemeroptera in fluctuating and constant temperature conditions. *Proceedings of the Royal Irish Academy* **73**B: 133-149.

—— (1974) Distribution data on the Ephemeroptera and Plecoptera in Ireland. *Entomologist's Gazette* **25**: 141-146.

—— (1975) A recurrent epizootic of a microsporidian parasite in a mayfly population. *Entomologist's Gazette* **26**: 146-148, plate 3.

—— (1975) Salmonid stocks of the Cloonee catchment in Co. Kerry. *Fishery Leaflet of the Department of Agriculture, Fisheries Division Dublin* **No. 95**: 1-8.

Feehan, J. (1983) Mayflies: Order Ephemeroptera. Pp 166 and 498. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Feeley, H. B., Davis, S., Bruen, M., Blacklocke, S. and Kelly-Quinn, M. (2012) The impact of a catastrophic storm event on benthic macroinvertebrate communities in upland headwater streams and potential implications for ecological diversity and assessment of ecological status. *Journal of Limnology* **71**: 299-308.

Feeley, H. B. and Kelly-Quinn, M. (2012) An evaluation of local and regional diversity of benthic macroinvertebrate communities in two small regions of Ireland and their potential as localised refugia for certain taxonomic groups. *Biology and Environment: Proceedings of the Royal Irish Academy* **112**B: 43-54.

—— (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218.

Feeley, H. B. and Macadam, C. R. (2020) *Baetis atlanticus* (Soldán and Godunko) (Ephemeroptera: Baetidae): a mayfly new to Ireland. *Ir. Nat. J.* **37**: 58-59.

Gattolliat, J. L. and Sartori, M. (2008) What is *Baetis rhodani* (Pictet, 1843) (Insecta, Ephemeroptera, Baetidae)? Designation of a neotype and redescription of the species from its original area. *Zootaxa* **1957**: 69-80.

Giller, P. S. (1986) New diagnostic characters for the identification of nymphs of two commonly sympatric *Baetis* species (Ephemeroptera: Baetidae). *Entomologist's Gazette* **37**: 53-56.

Giller, P. S. and Cambell, R. N. (1989) Colonisation patterns of mayfly nymphs (Ephemeroptera) in implanted natural substrates of different size. *Hydrobiologia* **178**: 59-142.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S., O'Halloran, J., Hernan, R., Roche, N., Clenaghan, C., Evans, J., Kiely, G. K., Morris, P., Allott, N., Brennan, M., Reynolds, J., Cooke, D., Kelly-Quinn, M., Bracken, J., Coyle, S. and Farrell, E. P. (1993) An integrated study of forested catchments in Ireland. *Irish Forestry* **50**: 70-83.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 115-126.

Greenwood, J. G. (1986) A population of *Ephemera danica* (Ephemeridae: Ephemeroptera) with a three year life cycle in Lough Navar, Co Fermanagh. *Ir. Nat. J.* **22**: 82.

—— (2014) Fecundity estimates in female sub-imagos of *Ephemera danica* Műller (Ephemeroptera) in Lower Lough Erne, Co. Fermanagh. *Ir. Nat. J.* **33**: 136-137.

Halbert, J. N. (1912) Clare Island Survey. 27. Neuroptera. *Proceedings of the Royal Irish Academy* **31**(27): 4pp.

Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263.

Hannigan, E., Mangan, R. and Kelly-Quinn, M. (2011) Evaluation of the success of mountain blanket bog pool restoration in terms of aquatic macroinvertebrates. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 95-105.

Harker, J. (1989) *Mayflies. Naturalists' Handbooks* **13**. The Richmond Publishing Co. Ltd, Slough. (a mention of *Heptagenia fuscogrisea*)

Harrington, R., Carroll, P., Carty, A. H., Keohane, J. and Ryder, C. (2007) Integrated Constructed Wetlands: concept, design, site evaluation and performance. *International Journal of Water* **3**: 243-256.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202.

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215.

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

InvertebrateIreland Online (2006) Irish Ephemeroptera (Mayflies). National Museums of Northern Ireland.
<http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=4>

Irvine, K., Free, G., de Eyto, E., White, J., Allott, N. and Mills, P. (2001) The EC water framework directive and monitoring lakes in the Republic of Ireland. *Freshwater Forum* **16**: 48-64. (*Leptophlebia*)

Johnson, M., O'Gorman, K., Gallagher, M., Clenaghan, C., Giller, P. S. and O'Halloran, J. (2001) The identification and amelioration of the impacts of clearfelling operations on lotic macroinvertebrates and salmonids in Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1565-1570.

Johnson, M. J., Giller, P. S., O'Halloran, J., O'Gorman, K. and Gallagher, M. B. (2005) A novel approach to assess the impact of land use activity on chemical and biological parameters in river catchments. *Freshwater Biology* **50**: 1273-1289.

Johnson, W. F. (1885) Great swarms of Ephemeridae on Lough Neagh. *Entomologist's mon. Mag.* **22**: 165.

Kelly, D. W., Dick, J. T. A. and Montgomery, W. I. (2002) Predation on mayfly nymph, *Baetis rhodani*, by native and introduced *Gammarus*: direct effects and the facilitation of predation by salmonids. *Freshwater Biology* **47**: 1257-1268.

Kelly-Quinn, M. (1991) The diel feeding pattern of brown trout (*Salmo trutta* L.) in acid streams during the summer and autumn months. Pp 47-57. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

—— (1993) Further records of *Ameletus inopinatus* Eaton (Ephemeroptera) in upland streams in Co. Wicklow, Ireland. *Bulletin of the Irish Biogeographical Society* **16**: 30-31.

—— (2020) Mayflies (Ephemeroptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/49>

Kelly-Quinn, M. and Bracken, J. J. (1988) A comparative study of two tributaries of the River Dodder - The Owendoher and the Dundrum Stream. *Irish Fisheries Investigations Series A* **No. 30**: 3-16.

—— (2000) Ephemeropteran assemblages in Ireland. *Verh. Internat. Verein. Limnol.* **27**: 963-969.

—— (2000) The distribution of the Ephemeroptera in Ireland. *Occasional Publication of the Irish Biogeographical Society* **Number 5**. 223pp.

—— (2001) Ephemeropteran assemblages in Ireland. *Verh. Internat. Verein. Limnol.* **27**: 963-969.

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2002) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 119-124.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kelly-Quinn, M. and Regan, E. C. (2012) *Ireland Red List No. 7: Mayflies (Ephemeroptera).* National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Kibichii, S., Feeley, H. B., Baars, J.-R. and Kelly-Quinn, M. (2015) The influence of water quality on hyporheic invertebrate communities in agricultural catchments. *Marine and Freshwater Research* **66**: 805-814. <http://dx.doi.org/10.1071/MF14214>

Kimmins, D. E. (1932) British Trichoptera, Ephemeroptera, and Plecoptera in 1930-1931. *Entomologist's mon. Mag.* **68**: 156-161. (Eph., Trich.)

—— (1934) British Ephemeroptera, Plecoptera and Trichoptera in 1933. *Entomologist's mon. Mag.* **70**: 62-66. (Eph., Trich.)

—— (1938) British Ephemeroptera, Plecoptera and Trichoptera in 1936. *Journal of the Society for British Entomology* **1**: 202-209. (records from Lough Gartan, Co. Donegal)

—— (1950) Ephemeroptera. *Handbooks for the Identification of British Insects* **1**(9): 1-18.

—— (1972) A revised key to the adults of the British species of Ephemeroptera with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **15**: 1-75.

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235.

Lucey, J. (1991) Invertebrates as pollution indicators in Irish rivers. Pp 135-150. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Lucy, F., Costello, M. J. and Giller, P. S. (1990) Diet of *Dinocras cephalotes* and *Perla bipunctata* (Plecoptera, Perlidae) in a south-west Irish stream. *Aquatic Insects* **12**: 199-207.

Lynch, J. M. and Byrne, C. F. (1995) *Ameletus inopinatus* Eaton and other Ephemeroptera from Glenveagh National Park, Co. Donegal, Ireland. *Bulletin of the Irish Biogeographical Society* **18**: 30-36.

Macan, T. T. (1955) A key to the nymphs of the British species of the Family Caenidae (Ephem.). *Entomologist's Gazette* **6**: 127-142.

—— (1958) Descriptions of the nymphs of the British species of *Heptagenia* and *Rhithrogena* (Ephem.). *Entomologist's Gazette* **9**: 83-92.

—— (1958) A comparison of the nymphs of the British species of the Genus *Ephemera*. *Journal of the Society for British Entomology* **6**: 27-33.

—— (1961) A key to the nymphs of the British species of Ephemeroptera with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **20**: 1-63.

—— (1970) A key to the nymphs of the British species of Ephemeroptera with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **20**: 1-68.

—— (1979) A key to the nymphs of British Ephemeroptera. *Scientific Publications of the Freshwater Biological Association* **20**: 1-80.

Macan, T. T. and Lund, J. W. G. (1954) Records from some Irish lakes Part I. Mollusca, *Gammarus*, *Asellus*, Ephemeroptera and Heteroptera. Part 2. Phytoplankton. *Proceedings of the Royal Irish Academy* **56**B: 135-158.

Marković, Z. and Živić, I. (2002) Fauna of Ephemeroptera in the running waters of West Serbia. *Archives of Biological Science, Belgrade* **54**: 117-124.

McFadden, Y. M. T. and Fairley, J. S. (1984) Food of otters *Lutra lutra* (L.) in an Irish limestone river system with special reference to the crayfish *Austropotamobius pallipes* (Lereboullet). *Journal of Life Sciences of the Royal Dublin Society* **5**: 65-76.

McGuinness, C. A., Bradley, C. and Kelly-Quinn, M. (2005) Composition of ephemeropteran communities along a pollution gradient in Irish rivers. *Verh. Internat. Verein. Limnol.* **29**: 1095-1098.

McLachlan, R. (1903) A few "Neuroptera" from South-West Ireland. *Entomologist's mon. Mag.* **39**: 14.

Moriarty, C. (1973) Distribution of freshwater macroinvertebrates in Ireland. 1967-1972. *Ir. Nat. J.* **17**: 409-412.

Mosely, M. E. (1929) Recent additions to the Irish fauna and flora. Neuroptera. *Proceedings of the Royal Irish Academy* **39**B: 21. (*Siphlurus armatus*)

—— (1930) Irish Trichoptera, Neuroptera, etc. *Entomologist* **63**: 30-34.

Mulcahy, M. F., Kelly, T. C. and Holland, C. (1998) Parasites and pathology of Irish freshwater animals. Pp 159-178. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Murphy, P. M. and Carter, C. E. (1984) A summer survey of the littoral macroinvertebrate fauna (excluding the Chironomidae) of Lough Neagh, N. Ireland. *Proceedings of the Royal Irish Academy* **84**B: 103-108.

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

O'Connor, J. P. (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25.

—— (1978) Further notes on the aquatic invertebrates of Hare Island and its environs, Lough Ree, Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **2**: 37-39.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21.

O'Driscoll, C., de Eyto, E., Rodgers, M., O'Connor, M., Kelly, M. and Xiao, L. (2014) Spatial and seasonal variation of peatland-fed riverine macroinvertebrate and benthic diatom assemblages and implications for assessment: a case study from Ireland. *Hydrobiologia* **728**: 67-87. (Eph., Plec.)

O'Meara, M. (2008) The mayflies of Waterford. *Fauna of Waterford Series* **No. 11**. Waterford Wildlife. <http://www.waterfordwildlife.com/>

O'Sullivan, A. D., McCabe, O. M., Murray, D. A. and Otte, M. L. (1999) Wetlands for rehabilitation of metal mine wastes. *Biology and Environment: Proceedings of the Royal Irish Academy* **99**B: 11-17.

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Porst, G., Brauns, M., Irvine, K., Solimini, A., Sandin, L., Pusch, M. and Miler, O. (2019) Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. *Ecological Indicators* **98**: 285-296.

Puthz, V. (1978) Ephemeroptera. Pp 256-263. *In* Illies, J. (ed.) *Limnofauna Europaea*.



Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reynolds, J. D. (1986) Some invertebrates of Lough Roe, Co. Offaly: a rare and endangered bogland habitat. *Bulletin of the Irish Biogeographical Society* **9**: 41-45.

—— (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684.

—— (2008) Man-handled? How and when did freshwater invertebrates cross the sea to Ireland? A review with particular reference to crustaceans. Pp 83-95. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reynolds, J. D., Cooke, D., Simon, N., Allott, N. and Brennan, M. (1994) Macroinvertebrate communities of poorly buffered afforested and non-afforested streams in western Ireland. *Verh. Internat. Verein. Limnol.* **25**: 1496-1501.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Reynolds, J. D. and Hunter, C. (1985) Evaluation of the use of artificial substrates in sampling the invertebrate fauna of sewage fungus slimes in Irish rivers. *Verh. Internat. Verein. Limnol.* **22**: 2239-2243.

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream- and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730.

Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60.

Sleeman, D. P. (2002) Insects and other invertebrates found in the guts of sea trout (*Salmo trutta* L.). *Ir. Nat. J.* **26** (2001): 381-382.

Southern, R. (1924) The fauna of a hatchery filter. *Ir. Nat.* **33**: 135-137.

Stelfox, A. W. (1935) House sparrows taking mayflies from the water. *Ir. Nat. J.* **5**: 258.

Tierney, D., Kelly-Quinn, M. and Bracken, J. J. (1998) The faunal communities of upland streams in the eastern region of Ireland with reference to afforestation impacts. *Hydrobiologia* **389**: 115-130.

Toner, P. F. and O'Connell, C. (1971) Water quality investigations in the River Blackwater and River Martin, Co. Cork 1966-1969. *Irish Fisheries Investigations Series A* **No. 8**.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Venour, S. (1906) *Ephemera* (*danica*, Mull.?) male imago copulating with the female subimago. *Entomologist's mon. Mag.* **42**: 258.

Walsh, A. (2007) *Water Framework Directive - Reference Conditions and Eutrophication Impacts in Irish Rivers (2000-FS-2-MI)*. Synthesis Report. Environmental Protection Agency, Johnstown Castle, Wexford.

Whelan, K. F. (1980) Some aspects of the biology of *Ephemera danica* Mull (Ephemeridae: Ephemeroptera) in Irish waters. Pp 187-199. *In* Flannagan, J. F. and Marshall, K. E. (eds) *Advances in Ephemeroptera biology*. Plenum Press, New York. (Proceedings of the 3rd International Conference on Ephemeroptera, Winnipeg, Canada)

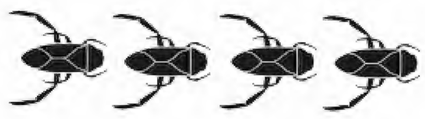
Williams, H. C., Ormerod, S. J. and Bruford, M. W. (2006) Molecular systematics and phylogeography of the cryptic species complex *Baetis rhodani* (Ephemeroptera, Baetidae). *Molecular Phylogenetics and Evolution* **40**: 370-382.

Wise, E. J. and O'Connor, J. P. (1997) Observations on the distribution and relative abundance of the Ephemeroptera and Plecoptera in the Killarney Valley, Co. Kerry, Ireland. Pp 175-179. *In* Landolt, P. and Sartori, M. (eds) *Ephemeroptera and Plecoptera: Biology-Ecology-Systematics*. MTL, Fribourg.

Wögerbauer, C. M. and Kelly-Quinn, M. (2013) Seasonal variation in diet and feeding strategy of three mayfly species. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 211-226.

Woodward, G., Bonada, N., Feeley, H. B. and Giller, P. S. (2015) Resilience of a stream community to extreme climatic events and long-term recovery from a catastrophic flood. *Freshwater Biology* **60**: 2497-2510.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.



CHAPTER 9. *HEMIPTERA

Anon. (1871) (Aphides on fir). *Proceedings of the Belfast Naturalists' Field Club* **1**: 9.

—— (1893) (Hemiptera). *Ir. Nat.* **2**: 225.

—— (1893) (Hemiptera). *Proceedings of the Belfast Naturalists' Field Club* **4**: 32. and *Ir. Nat.***2**: 227.

—— (1894) (Hemiptera). *Ir. Nat.* **3**: 222.

—— (1895) (*Phytocoris tiliae*). *Ir. Nat.* **4**: 320.

—— (1895) Dublin Naturalists' Field Club. *Ir. Nat.* **4**: 221-222.

—— (1896) (Hemiptera). *Ir. Nat.* **5**: 266.

—— (1897) (Excursion to Ferns, Co. Wexford). *Ir. Nat.* **6**: 279.

—— (1902) (*Corixa bonsdorffi*). *Ir. Nat.* **11**: 252.

—— (1933) (*Cryptococcus fagi*). *Proceedings of the Belfast Naturalists' Field Club* **9**: 227.

—— (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

—— (2010) Coreidae. *Leptoglossus occidentalis*. *Hetnews. Newsletter of the Heteroptera Recording Schemes* **Issue 16**: 10.

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54.

Alexander, K. N. A. (2002) The invertebrates of living and decaying timber in Britain and Ireland. A provisional annotated checklist. *English Nature Research Reports* **No. 467**. English Nature, Peterborough.

Alexander, K. N. A. and Foster, A. P. (2000) *Dufouriellus ater*, *Plesiodema pinetellum* and *Psallus flavellus* new to Ireland, with unconfirmed records of *Psallus wagneri* and *Dryophilocoris flavomaculatus* (Hemiptera). *Ir. Nat. J.* **26** (1999): 270-271.

Allen, D., Woodrow, W., Mellon, C., Hughes, M. and Nelson, B. (2012) A selection of invertebrates closely associated with Marsh Fritillary *Euphydryas aurinia* (Rott.) habitat and Devil's-bit Scabious *Succisa pratensis* in Ireland. *Atropos* **46**: 48-55.

Anderson, A., Carnus, T., Helden, A. J., Sheridan, H. and Purvis, G. (2013) The influence of conservation field margins in intensively managed grazing land on communities of five arthropod trophic groups. *Insect Conservation and Diversity* **6**: 201-211.

Anderson, R. (2006) *Rhacognathus punctatus* (L.) (Hem., Pentatomidae) confirmed as an Irish species with three new sites in northern counties. *Entomologist's mon. Mag.* **142**: 62.

—— (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

—— (2008) Insect and invertebrate review 2006-2007. *Ir. Nat. J.* **29**: 66-69.

—— (2008) Terrestrial invertebrates. *Biodiversity Ireland* **Issue 1**: 9-11.

—— (2011) *Plea minutissima* Leach (Hemiptera: Pleidae) and *Helophilus trivittatus* (Fab.) (Diptera: Syrphidae) in Co. Down. *Ir. Nat. J.* **31** (2010): 57.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Andrews, W. (1846) (*Eriosoma*). *Annual Report of the Dublin Natural History Society* **8**: 5.

Angus, R. (2006) *Corixa iberica* in Scotland and Spain. *Hetnews. Newsletter of the Heteroptera Recording Schemes* **Issue 7**: 4-9. (Irish distribution shown)

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Aukema, B. and Aukema, R. (2002) *Psallus confusus* Rieger and *Salda morio* (Zetterstedt) (Hemiptera: Heteroptera) collected in Connemara. *Ir. Nat. J.* **26** (2001): 371-373.

Aukema, B., Hermes, D. J., Nelson, B. and O'Connor, J. P. (2007) Eleven land and water bugs new to the Irish list (Insecta: Heteroptera). *Ir. Nat. J.* **28** (2006): 327-333.

Aukema, B. and Rieger, C. (eds) (1995) *Catalogue of the Heteroptera of the Palaearctic Region.* **1**. *Enicocephalomorpha, Dipsocoromorpha, Nepomorpha, Gerromorpha and Leptopodomorpha.* The Netherlands Entomological Society, Amsterdam.

—— (1996) *Catalogue of the Heteroptera of the Palaearctic Region.* **2**. *Cimicomorpha I*. The Netherlands Entomological Society, Amsterdam.

—— (1999) *Catalogue of the Heteroptera of the Palaearctic Region.* **3**. *Cimicomorpha II*. The Netherlands Entomological Society, Amsterdam.

—— (2001) *Catalogue of the Heteroptera of the Palaearctic Region.* **4**. *Pentatomomorpha I*. The Netherlands Entomological Society, Amsterdam.

Aukema, B. and Rieger, C. (eds) (2001) *Catalogue of the Heteroptera of the Palaearctic Region.* **5**. *Pentatomomorpha II*. The Netherlands Entomological Society, Amsterdam.

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10.

Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248.

Ball, R. (1846) *Corixa striata*, Curtis. *Annals and Magazine of Natural History* **16**: 135-136.

Bannon, E. and Purvis, G. (1993) Pests and diseases of agricultural crops. Pp 17-30. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Bantock, T. M. (2017) Hemiptera. 2016 Annual Exhibition. *British Journal of Entomology and Natural History* **30**: 100. (*Nysius cymoides*, *Sigara fallenoidea*)

Barry, C. (2013) *Corixa affinis* Leach and records of other aquatic and semi-aquatic Heteroptera on Sherkin Island, Co. Cork. *Ir. Nat. J.* **32**: 85-88.

Bartlett, C. R., O'Brien, L. B. and Wilson, S. W. (2014) *A review of the planthoppers (Hemiptera: Fulgoroidea) of the United States*. Memoirs of the American Entomological Society **Number 50**. (*Myndus musivus*, *Conmelus anceps*, *Delphacodes hemiptera*, *Javesella discolor*, *J. obscurella*, *J. pellucida*)

Bedwell, E. C. (1945) The county distribution of the British Hemiptera-Heteroptera. *Entomologist's mon. Mag.* **81**: 253-273.

Beirne, B. P. (1942) Observations on the life-history of *Praon volucre* Haliday (Hym., Braconidae) a parasite of the mealy plum aphis (*Hyalopterus arundinis* Fab.). *Proceedings of the Royal Entomological Society of London* **17**: 42-47.

—— (1942) Observations on the developmental stages of some Aphidiinae (Hym., Braconidae). *Entomologist's mon. Mag.* **78**: 283-286.

Bell, A. C. (1982) Bulb and potato aphid: a serious pest of of sprouting seed potatoes. *Agriculture in Northern Ireland* **57**: 176-178.

Blackman, R. L. (2010) Aphids - Aphidinae (Macrosiphini). *Handbooks for the Identification of British Insects* **2**(7): i-vi, 1-413.

Blackman, R. L., Dransfield, R. D. and Brightwell, R. (2019) Aphids - Anoeciinae, Lachninae, Eriosomatinae, Phloeomyzinae, Thelaxinae, Hormaphidinae, Mindarinae. *Handbooks for the Identification of British Insects* **2**(8): 1-215.

Blackman, R. L. and Eastop, V. F. (2011) Additions and amendments to "Aphids on the World's Plants". *Zootaxa* **2774**: 57-68. (*Nearctaphis bakeri*)

Bowdrey, J. (2007) County Kerry Eire. Shieldbugs and coreids from Ireland. *Hetnews. Newsletter of the Heteroptera Recording Schemes* **Issue 10**: 13.

Bracken, J. J. (1974) Notes and observations on distribution of *Apelocheirus aestivatis* Fabr. forma *montandoni* Horv. in Irish waters. *Freshwater Biology* **4**: 227-232.

Breen, J. (1979) Aphids visited by *Formica lugubris* (Hymenoptera: Formicidae) including eleven species new to Ireland. *Ir. Nat. J.* **19**: 349-352.

Brenan, S. A. (1898) *Piezodorus lituratus* in Co. Tyrone. *Ir. Nat.* **7**: 271.

—— (1900) *Acanthosoma haemorrhoidale* in Co. Antrim. *Ir. Nat.* **9**: 129.

Brinkhurst, R. O. (1959) The habitats and distribution of British *Gerris* and *Velia* species. *Journal of the Society for British Entomology* **6**: 37-44.

Britten, H. (1939) *Triphleps laevigata* Fieber (Hem., Anthocoridae) new to Britain. *Entomologist's mon. Mag.* **75**: 29-31.

Brooke, S. (2004) A checklist of British water bugs (Hemiptera-Heteroptera). *Hetnews. Newsletter of the Heteroptera Recording Schemes* **Issue 3**: 8-10.

Brown, E. S. (1946) The variation of *Glaenocorisa* Thomson (Hemipt., Corixidae) in the British Isles, and its probable cause. *Transactions of the Royal Entomological Society of London* **96**: 1-9.

—— (1948) A contribution towards an ecological survey of the aquatic and semi-aquatic Hemiptera-Heteroptera (water-bugs), of the British Isles; dealing chiefly with the Scottish Highlands, and East and South England. *Transactions of the Society of British Entomology* **9**: 151-195.

—— (1951) The identity of British *Velia* (Hem., Veliidae), with an account of a species new to Britain. *Entomologist's mon. Mag.* **87**: 297-306.

—— (1954) Notes on the rarer British species of aquatic and semi-aquatic Hemiptera: II Veliidae. *Entomologist* **87**: 45-53.

Buckle, C. W. (1902) Entomological notes from Ulster. *Ir. Nat.* **11**: 40-44.

Buckton, S. (2020) *Blepharidopterus diaphanus* (Kirschbaum, 1856) (Heteroptera: Miridae) and *Ichneumon stramentor* (Rasnitsyn, 1981) (Hymenoptera: Ichneumonidae) new to Scotland, amongst other notable invertebrates discovered at RSPB Scotland Loch Lomond during summer 2019. *The Glasgow Naturalist* (online 2020) **27** <https://doi.org/10.37208/tgn27210> (*B. diaphanus*)

Bullock, E. (1928) *Corixa dentipes* Thoms. in the Killarney District of Co. Kerry, Ireland. *Entomologist's mon. Mag.* **64**: 117. (& spp.)

Burbridge, F. W. (1901) Selection of plants by animals. *Ir. Nat.* **10**: 202.

Burckhardt, D. and Lauterer, P. (1997) Systematics and biology of the *Aphalara exilis* (Weber and Mohr) species assemblage (Hemiptera: Psyllidae). *Entomological Scandinavica* **28**: 271-305. (*A. exilis*, *A. ulicis*)

Butler, E. A. (1915) *Aepophilus bonnairei* Sign. at Seenen Cove. *Entomologist's mon. Mag.* **51**: 194.

—— (1916) On the distribution of *Miris holsatus* F., in Britain. *Entomologist's mon. Mag.* **52**: 65-66.

—— (1921) On *Nabis lativentris* Boh. (Hemip.-Heterop). *Entomologist's mon. Mag.* **57**: 79-81. (Hem., Hym.)

—— (1922) A contribution to the life-history of *Pentatoma rufipes* L. *Entomologist's mon. Mag.* **58**: 152-156.

Byrne, C., Power, B. and Nelson, B. (2018) Heteroptera in Co. Carlow: first county records of *Aradus depressus* (Aradidae), *Sehirus luctuosus* (Cydnidae) and eight shieldbug species. *Ir. Nat. J.* **36**: 44-47.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Carpenter, G. H. (1894) The stridulation of *Corixa*. *Ir. Nat.* **3**: 253-255.

Carpenter, G. H. (1894) (*Orthezia cataphracta*). *Ir. Nat.* **3**: 109.

—— (1897) *Aepophilus bonnairei*, Sign., on the Irish coast. *Entomologist's mon. Mag.* **33**: 62.

—— (1897) (*Aepophilus bonnairei*). *Ir. Nat.* **6**: 137.

—— (1912) (*Aphis pomi*). *Ir. Nat.* **21**: 46.

—— (1914) (*Pseudoccoccus aceris*). *Ir. Nat.* **23**: 122.

—— (1921) (*Pulvinaria vitis*). *Ir. Nat.* **30**: 67.

Carter, C. I., Wood-Baker, C. S. and Polaszek, A. (1987) Species, host plants and distribution of aphids occurring in Ireland. *Ir. Nat. J.* **22**: 266-284.

Cawley, M. (2015) A third Irish site for the scarab bug *Thyreocoris scarabaeoides* (L.) (Hemiptera: Thyreocoridae). *Bulletin of the Irish Biogeographical Society* **39**: 212-214.

Cawley, M. and Nelson, B. (2013) *Heterogaster urticae* (Fabricius) (Heteroptera: Lygaeidae) confirmed as an Irish species. *Bulletin of the Irish Biogeographical Society* **37**: 106-108.

Chauzat, M.-P., Purvis, G. and Dunne, R. (2001) A foreigner in Ireland. *Biologist* **48**: 133. (eucalyptus psyllid)

—— (2002) Release and establishment of a biological control agent, *Psyllaephagus pilosus*, for eucalyptus psyllid (*Cenarytaina eucalypti*) in Ireland. *Annals of Applied Biology* **141**: 293-304.

China, W. E. (1935) On some Hemiptera new to Britain. *Entomologist's mon. Mag.* **71**: 159-161.

—— (1942) A revision of the British species of *Cixius* Latr. (Homoptera), including the description of a species new to Scotland. *Transactions of the Society of British Entomology* **8**: 70-110.

—— (1955) *Sigara* (*Subsigara*) *pearcei* Walton 1936, a synonym of the Canadian *S.* (*S.*) *fallenoidea* Hungerford 1926 (Heteroptera, Corixidae). *Entomologist's mon. Mag.* **91**: 46-47.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Corrigendum (to McCarthy, T. K. and Walton, G. A. 1980 *Ir. Nat. J.* **20**: 64-66). *Ir. Nat. J.* **20**: 172.

Cotton, D., Nelson, B. and FitzPatrick, Ú. (2012) *Identification guide to Ireland's shieldbugs*. National Biodiversity Data Centre, Waterford.

Crawford, W. M. (1935) Irish Hemiptera records. *Ir. Nat. J.* **5**: 232.

Crisp, D. T. (1959) Hydracarines and nematodes parasitizing *Corixa scotti* (D. & S.) (Hemiptera) in western Ireland. *Ir. Nat. J.* **13**: 88-92.

Crisp, D. T. and Heal, D. W. (1958) The Corixidae (O. Hemiptera), Gyrinidae (O. Coleoptera) and Cladocera (subphylum Crustacea) of a bog in Western Ireland. *Ir. Nat. J.* **12**: 297-304.

—— (1958) The Corixidae (O. Hemiptera), Gyrinidae (O. Coleoptera) and Cladocera (subphylum Crustacea) of a bog in Western Ireland. III: The distribution of Cladocera. *Ir. Nat. J.* **12**: 318-324.

Cross, J. R. (1974) *Graphocephala coccinea* (Foster) (Hemiptera, Cicadellidae), a bug new to Ireland. *Ir. Nat. J.* **18**: 20.

Cuppen, J. G. M. and Nelson, B. (2007) *Micronecta griseola* Horváth, a new water boatman for Ireland (Heteroptera: Corixidae). *Ir. Nat. J.* **28**: 410-413.

Curry, J. P. (1987) Soil invertebrates as monitors of the effects of slurry and pesticide application. Pp 123-136. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin.

Curry, J. P. and Purvis, G. (1982) Studies on the influence of weeds and farmyard manure on the arthropod fauna of sugar beet. *Journal of Life Sciences of the Royal Dublin Society* **3**: 397-408.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London.

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London.

Curtis, T., Downes, S. and Ní Chathin, B. (2009) The ecological requirements of water-dependent habitats and species designated under the habitats directive. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 261-319.

Cuthbert, H. K. G. (1895) Insects from Rosscarberry, Co Cork. *Ir. Nat.* **4**: 303-305. (correction)

—— (1897) Beetles, etc., from Ardmore, Co. Waterford. *Ir. Nat.* **6**: 87.

Cuthbertson, A. G. S., Fleming, C. C. and Murchie, A. K. (2003) Detection of *Rhopalosiphum insertum* (apple-grass aphid) predation by the predatory mite *Anystis baccarum* using molecular gut analysis. *Agricultural and Forest Entomology* **5**: 219-225.

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6.

—— (2006) Environmental monitoring of economically important invertebrate pests in Bramley apple orchards in Northern Ireland. *International Journal of Environmental Science and Technology* **3**(1) DOI: 10.1007/BF03325901
(Hem.: *Rhopalosiphum insertum*; Lep.: *Archips podana*)

—— (2007) The life history of *Rhopalosiphum insertum* (apple-grass aphid) in Bramley`s Seedling Apple Orchards. *Journal of Entomology* **4**: 160-162.

Damgaard, J. (2005) Genetic diversity, taxonomy, and phylogeography of the western Palearctic water strider *Aquarius najas* (DeGeer) (Heteroptera: Gerridae). *Insect Systematics & Evolution* **36**: 395-406.

Day, K. R. (2002) The green spruce aphid - a pest of spruce in Ireland. *COFORD Connects - Silviculture and Forest Management* **No. 4**. COFORD, Dublin.

de Courcy Williams, M. (1989) *Idiocerus stigmaticalis* Lewis and *Metidiocerus elegans* (Flor) (Homoptera: Auchenorrhyncha), leafhoppers new to Ireland. *Ir. Nat. J.* **23**: 31-32.

de Courcy Williams, M. (1989) A preliminary list of the Irish Auchenorrhyncha (Homoptera). *Bulletin of the Irish Biogeographical Society* **12**: 135-148.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

den Bieman, C. F. M. (2016) Twee bijzondere spoorcicaden voor Nederland: *Kelisia monoceros* en *Ditropsis flavipes* (Homoptera: Auchenorrhyncha: Delphacidae). *Nederlandse Faunistische Mededelingen* **46**: 1-9. (*Ditropsis flavipes*, *K. monoceros*)

den Bieman, C. F. M. and Mol, A. W. M. (2010) Vier soorten spoorcicaden voor het eerst in Nederland aangetroffen (Hemiptera, Fulgoromorpha, Delphacidae). *Entomologische Berichten* **70**: 162-166. (*Chloriona unicolor*)

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Distant, W. L. (1902) Rhynchota collected by Col. Yerbury in South-West Ireland (1901). *Ir. Nat.* **11**: 108-109.

Dolling, W. R. (1999) *Europiella* Reuter (Hem., Miridae) in Britain. *Entomologist's mon. Mag.* **135**: 103-106. (absence in Ireland noted)

Douglas, J. W. (1881) On the species of the Genus *Orthezia. Entomologist's mon. Mag.* **17**: 172-176.

—— (1888) Notes on some British and exotic Coccidae (No. 9). *Entomologist's mon. Mag.* **25**: 57-60.

Douglas, J. W. and Scott, J. (1865) *The British Hemiptera. Vol. I Hemiptera-Heteroptera*. Ray Society (Series) **No. 37**. Robert Hardwicke, London.

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Drinan, T. J., Foster, G., Nelson, B. and O'Halloran, J. (2013) Macroinvertebrate assemblages of peatland lakes: Assessment of conservation value with respect to anthropogenic land-cover change. *Biological Conservation* **158**: 175-187.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53)

Dunne, R. M. (1971) Overwintering of *Myzus persicae* and other aphids infesting sugar beet in Ireland. *Irish Journal of Agricultural Research* **10**: 59-69.

—— (1971) A biological and morphological comparison among some isolates of the *Aphis fabae* complex (Hemiptera, Aphididae). *Irish Journal of Agricultural Research* **10**: 341-353.

Eastop, V. F. (1972) A taxonomic review of the species of *Cinara* Curtis occurring in Britain (Hemiptera: Aphididae). *Bulletin of the British Museum of Natural History* (Entomology) **27**: 101-186.

Edwards, J. (1896) *The Hemiptera-Homoptera (Cicadina and Psyllina) of the British Islands: a descriptive account of the families, genera, and species indigenous to Great Britain and Ireland with notes as to localities, habitats, etc.* L. Reeve and Co., London.

—— (1924) On some new or little-known British Cicadina. *Entomologist's mon. Mag.* **60**: 52-58.

Edwards, T. L. (1981) An *entomophthora* species on *Cinara pilicornis* (Hartig) (Hemiptera: Aphididae). *Ir. Nat. J.* **20**: 204-206.

Endrestøl, A. and Elven, H. (2009) Two species of Aphrodinae (Hemiptera, Cicadellidae) new to the Norwegian fauna. *Norwegian Journal of Entomology* **56**: 24-27. (*Anoscopus limicola*)

Erlandsson, A. and Giller, P. S. (1992) Distribution and feeding behaviour of field populations of the water cricket *Velia caprai* Tam (Hemiptera). *Freshwater Biology* **28**: 231-236.

Evans, G. A. (2007) *The whiteflies (Hemiptera: Aleyrodidae) of the world and their host plants and natural enemies.* USDA/Animal Plant Health Inspection Service (APHIS). Version 070606. Last Revised: June 11, 2007. <http://keys.lucidcentral.org/keys/v3/whitefly/PDF_PwP%20ETC/world-whitefly-catalog-Evans.pdf.>
(*Pealius quercus*, *Siphoninus phillyreae*, *Trialeurodes vaporariorum*)

Everard, A., Griffin, C. T. and Dillon, A. B. (2009) Competition and intraguild predation between the braconid parasitoid *Bracon hylobii* and the entomopathogenic nematode *Heterorhabditis downesi*, natural enemies of the large pine weevil, *Hylobius abietis*. *Bulletin of Entomological Research* **99**: 151-161.

Fahy, E. (1976) An explanation for the distribution in Ireland of *Aphelocheirus aestivalis* (Fabricius) (Hemiptera: Aphelocheiridae). *Entomologist's Gazette* **27**: 275-276.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Feeley, H. B. and Kelly-Quinn, M. (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218.

Fisher, K., Nelson, B. and Baars, J.-R. (2015) Motorway attenuation ponds make a significant contribution to the landscape biodiversity of mobile aquatic insect groups. Conference: *ENVIRON* (2015) The 25th environmental researchers' colloquium. At: Sligo IT, Sligo, Ireland.

Flower, R. J. (1982) A comparative limnological survey of Rathlin Island, Co. Antrim, with particular reference to diatoms. *Proceedings of the Royal Irish Academy* **82**B: 1-20. (Corixidae, *Notonecta*)

Foley, S. and McCormack, S. (2013) *Leptoglossus occidentalis* Heidemann (Hemiptera, Coreidae) new to Ireland. *Ir. Nat. J.* **33**: 66-67.

Foottit, R. G., Maw, H. E. L., Pike, K. S. and Messing, R. H. (2011) The aphids (Hemiptera: Aphididae and Adelgidae) of Hawai'i: annotated list and key to species of an adventive fauna. *Pacific Science* **66** (Early view). (*Tuberolachnus salignus*)

Foster, S. (2018) The earliest Irish occurrence of *Megalaceroea recticornis* (Hemiptera, Miridae) and a first record for Co. Down. *Ir. Nat. J.* **36**: 51.

Fritch, R., McCormack, S. and Nelson, B. (2011) Six species of Heteroptera new to Co. Wexford. *Ir. Nat. J.* **31** (2010): 56.

Fritch, R. A., Sheridan, S., Finn, J. A., McCormack, S. and Ó hUallacháin, D. (2017) Enhancing the diversity of breeding invertebrates within field margins of intensively managed grassland: Effects of alternative management practices. *Ecology and Evolution* **7**: 9763-9774.

Frost, W. E. and Macan, T. T. (1948) Corixidae (Hemiptera) as food of fish. *Journal of Animal Ecology* **17**: 174-179.

Ghahari, H., Abd-Rabou, S., Zahradnik, J. and Ostovan, H. (2009) Annotated catalogue of whiteflies (Hemiptera: Sternorrhyncha: Aleyrodidae) from Arasbaran, Northwestern Iran. *Journal of Entomology and Nematology* **1**: 7-18. (*Siphoninus phillyreae*, *Trialeurodes vaporariorum*)

Giller, P. S. (1986) The natural diet of the Notonectidae: field trials using electrophoresis. *Ecological Entomology* **11**: 163-172.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S., Ryan, B., Kennedy, T. and Connery, J. (1995) Aphid-parasitoid interactions in a winter wheat cereal crop: field trials involving aphicide application. *Journal of Applied Entomology* **119**: 233-239.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 115-126.

Gillham, M. C. (1987) Some Auchenorrhyncha (Homoptera) collected from Cos Kerry, Cork and Wexford. *Ir. Nat. J.* **22**: 212-213.

Good, J. A. (1986) Invertebrates of Irish midlands raised bogs: part IV. Notes on terrestrial insects. *Bulletin of the Irish Biogeographical Society* **9**: 2-9.

Grainger, J. P. and Fairley, J. S. (1978) Studies on the biology of the pygmy shrew *Sorex minutus* in the west of Ireland. *Journal of Zoology, London* **186**: 109-141.

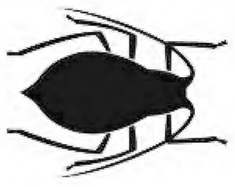
Green, E. (1934) Observations on British Coccidae, XIV. *Entomologist's mon. Mag.* **70**: 108-114.

Greenslade, A. F. C. (2016) A new species of Eucalyptus psyllid *Ctenarytaina spatula* Taylor, 1997 (Hemiptera: Aphalaridae: Spondyliaspidinae) recorded from Great Britain. *Entomologist's Rec. J. Var.* **128**: 265-267.

Greenwood, J. G. and Smyth, J. (1991) Unusual behaviour of a water scorpion *Nepa cinerea* L. (Hemiptera: Nepidae). *Ir. Nat. J.* **23**: 424-425.

Greville, R. K. (1841) *Hydroessa pygmaea. Entomologist* **1**: 159. (*Microvelia*)

Guglielmino, A., Bückle, C. and Remane, R. (2005) Contribution to the knowledge of the Auchenorrhyncha fauna of central Italy (Hemiptera, Fulgoromorpha et Cicadomorpha). *Marburger Entomologische Publikationen* **3**: 13-98. (*Macropsis scotti*)



Gunn, W. F. (1908) (*Lachnus viminalis*). *Ir. Nat.* **17**: 262.

Gunther, H. (2011) *Platycranus jordii* nov. sp. (Hemiptera: Heteroptera: Miridae) from southern Spain. *Heteropterus Revista de Entomología* **11**: 267-271. (*Platycranus bicolor*)

Gwiazdowski, R. A., Van Driesche, R. G., Desnoyers, A., Lyon, S., Wu, S.-A., Kamata, N. and Normark, B. B. (2006) Possible geographic origin of beech scale, *Cryptococcus fagisuga* (Hemiptera: Eriococcidae), an invasive pest in North America. *Biological Control* **39**: 9-18.

Halbert, J. N. (1894) *Lygus atomarius*, Mey., and other Hemiptera in Ireland. *Entomologist's mon. Mag.* **30**: 64-65.

—— (1895) *Orthezia cataphracta*, Shaw, in Co. Dublin. *Ir. Nat.* **4**: 104-105.

—— (1895) (*Microvelia pygmaea*). *Ir. Nat.* **4**: 133.

—— (1895) (*Cryptostemma alienum*). *Ir. Nat.* **4**: 219.

—— (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895. Hemiptera. *Ir. Nat.* **4**: 258.

—— (1895) (Hemiptera). *Ir. Nat.* **4**: 295.

—— (1896) Insects collected on Lugnaquilla and in Glenmalur Valley, Co. Wicklow. *Ir. Nat.* **5**: 210-212. (Col., Hem.)

—— (1896) Notes on the fauna and flora of Clonbrock, Co. Galway. Hemiptera. P. 229. *In* McWeeney, E. J. and Praeger, R. L. *Ir. Nat.* **5**: 217-234.

—— (1897) (*Mycrophysa elegantula*). *Ir. Nat.* **6**: 137.

—— (1897) (Hemiptera from Rathdrum). *Ir. Nat.* **6**: 307.

—— (1898) Irish Field Club Union. Kenmare Conference. Hemiptera. *Ir. Nat.* **7**: 216-217.

—— (1899) (*Eurygaster maura*). *Ir. Nat.* **8**: 105.

—— (1902) Hemiptera. Pp 213-215. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1904) Irish Field Club Union. Sligo Conference. Hemipera. *Ir. Nat.* **13**: 196-197.

—— (1905) (*Seaforthia elegans*). *Ir. Nat.* **14**: 66.

—— (1906) (*Dactylopius citri*). *Ir. Nat.* **15**: 108.

—— (1906) (*Liburnia lugubrina*). *Ir. Nat.***15**: 271.

—— (1907) Contributions to the natural history of Lambay. Hemiptera. *Ir. Nat.* **16**: 53.

—— (1908) Hemiptera. Pp 171-172. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1909) (*Nabis lativentris*). *Ir. Nat.* **18**: 252.

—— (1910) Irish Field Club Union. Rosapenna Conference. Hemiptera. *Ir. Nat.* **19**: 185.

—— (1912) Clare Island Survey. 30. Hemiptera. *Proceedings of the Royal Irish Academy* **31**(30): 10pp.

—— (1915) (*Aphelochirus aestivalis*). *Ir. Nat.* **24**: 89.

—— (1917) (*Calocoris striatus*). *Ir. Nat.* **26**: 85.

—— (1919) (*Ploiaria culiciformis* in Co. Armagh). *Ir. Nat.* **28**: 91.

Halbert, J. N. (1922) *Calocoris striatus* at Woodenbridge, Co. Wicklow. *Ir. Nat.* **31**: 32-33.

—— (1935) A list of the Irish Hemiptera (Heteroptera and Cicadina). *Proceedings of the Royal Irish Academy* **42**B: 211-318. (locality list of the Irish spp)

Haliday, A. H. (1832) *Aleyrodes phillyreae*. *The Entomological Magazine* **2**: 119-120.

Halldórsson, G., Docherty, M., Oddsdóttir, E. S. and Day, K. R. (2001) The performance of different populations of the green spruce aphid (*Elatobium abietinum* Walker) at different temperatures. *Icelandic Agricultural Sciences* **14**: 75-84.

Halldórsson, G., Sigurdsson, V., Thórsson, Æ. T., Oddsdóttir, E. S., Sigurgeirsson, A. and Anamthawat-Jónsson, K. (2004) Genetic diversity of the green spruce aphid (*Elatobium abietinum* Walker) in north-west Europe. *Agricultural and Forest Entomology* **6**: 31-37.

Hamilton, I. and Heath, J. (1976) Predation of *Pentatoma rufipes* (L.) (Hemiptera: Pentatomidae) upon *Zygaena filipendulae* (L.) (Lepidoptera: Zygaenidae). *Ir. Nat. J.* **18**: 337.

Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263.

Hannigan, E., Mangan, R. and Kelly-Quinn, M. (2011) Evaluation of the success of mountain blanket bog pool restoration in terms of aquatic macroinvertebrates. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 95-105.

Harrington, R., Carroll, P., Carty, A. H., Keohane, J. and Ryder, C. (2007) Integrated Constructed Wetlands: concept, design, site evaluation and performance. *International Journal of Water* **3**: 243-256.

Hart, H. C. (1880) *Dorthesis chiton* in Ireland. *Entomologist* **13**: 284.

Hazelton, M. (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

Healy, B. (1997) Long-term changes in a brackish lagoon, Lady's Island Lake, South-East Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 33-51.

Healy, B., Bates, R. and McGrath, D. (1982) Marine fauna of County Wexford - 5. Lady's Island Lake. *Ir. Nat. J.* **20**: 510-526.

Healy, B. and Oliver, G. A. (1998) Irish coastal lagoons: summary of a survey. *Bulletin of the Irish Biogeographical Society* **21**: 116-150.

Helden, A. (2004) *Ossiannilssonola callosa* (Then): a typhlocybine leafhopper new to Ireland. *Entomologist's mon. Mag.* **140**: 284.

Helden, A. (2005) The typhlocybine (Hem.-Hom.) leafhopper *Alebra wahlbergi* (Boheman, 1845), new to Ireland. *Entomologist's mon. Mag.* **141**: 214.

—— (2005) Interesting Auchenorrhyncha records from sand dunes in north Co Dublin, including a new species for Ireland: *Anaceratagallia* (*Agallia*) *ribauti* (Ossiannilsson, 1938). *Ir. Nat. J.* **28**: 174.

—— (2005) *Kybos virgator* (Ribaut, 1933) (Cicadellidae, Typhlocybinae) new to Ireland and a second known Irish population of the leafhopper *Ossiannilssonola callosa* (Then, 1886). *Ir. Nat. J.* **28**: 174-175.

—— (2006) *Wagneripteryx* (*Aguriahana*) *germari* (Zetterstedt), a species of typhlocybine leafhopper (Hem.) new to Ireland. *Entomologist's mon. Mag.* **142**: 184.

Helden, A. (2007) *Kybos populi* (Edwards, 1908) (Hemiptera: Cicadellidae) an aspen feeding leafhopper new to Ireland. *Ir. Nat. J.* **28** (2006): 341-342.

—— (2007) Three species of *Edwardsiana* Zakhvatkin (Hemiptera: Cicadellidae: Typhlocybinae) new to Ireland. *Entomologist's mon. Mag.* **143**: 129.

—— (2007) *Xanthodelphax straminea* (Stål, 1858) (Hemiptera: Delphacidae) new to Ireland. *Entomologist's mon. Mag.* **143**: 130.

—— (2007) Discovery of the second European species of *Megophthalmus* Curtis (Hemiptera, Cicadellidae, Megophthalminae) in Ireland. *Ir. Nat. J.* **28**: 418.

—— (2008) A species of leafhopper, *Kybos rufescens* (Melichar, 1896) (Hem., Cicadellidae: Typhlocybinae) new to Ireland, found in two different counties. *Entomologist's mon. Mag.* **144**: 176.

—— (2009) Evidence for successful overwintering in the psyllid *Ctenarytaina spatulata* Taylor (Hemiptera: Psylloidea: Spondyliaspidae), new to the British Isles. *Entomologist's mon. Mag.* **145**: 32.

—— (2009) Two species of leafhoppers (Hemiptera: Cicadellidae) new to Ireland, with confirmation of their breeding status. *Ir. Nat. J.* **30**: 63.

—— (2013) Additional species associations of mermithid nematode parasitism of Auchenorrhyncha (Hemiptera). *Ir. Nat. J.* **33**: 66.

—— (2013) A species of aphid, *Caricosipha paniculatae* (Hemiptera: Aphididae) new for Ireland. *Ir. Nat. J.* **33**: 68-69.

—— (2013) *Macrosteles variatus* (Hemiptera: Cicadellidae) a leafhopper species new for Ireland. *Ir. Nat. J.* **33**: 69.

—— (2015) Second record for the leafhopper *Megophthalmus scabripennis* in Ireland. *Ir. Nat. J.* **34**: 132.

Helden, A., Anderson, A. and Purvis, G. (2008) Arthropod biodiversity of agricultural grassland in south and east Ireland: Hemiptera. *Bulletin of the Irish Biogeographical Society* **32**: 160-171.

Helden, A. J. (2005) *Aphrodes aestuarina* (Edwards), a leafhopper (Hem.) new to Ireland, with some notes on its status and identification. *Entomologist's mon. Mag.* **141**: 161-162.

—— (2005) A first Irish record of the typhlocybine leafhopper *Edwardsiana prunicola* (Edwards, 1914). *Entomologist's mon. Mag.* **141**: 186.

Helden, A. J., Anderson, A., Finn, J. and Purvis, G. (2015) The response of sward-dwelling arthropod communities to reduced grassland management intensity in pastures. *Irish Journal of Agricultural and Food Research* **54**: 107-120.

Helden, A. J. and Sheridan, H. (2006) An Irish population of the little-known planthopper *Paraliburnia clypealis* (Hom., Delphacidae) in a very unexpected habitat. *Ir. Nat. J.* **28**: 232-239.

Helden, A. J. and Stewart, A. J. A. (2008) A review of the Idiocerinae (Hemiptera, Cicadellidae) of Ireland with six additions to the known Irish fauna. *Ir. Nat. J.* **29**: 36-39.

Hill, A. R. (1947) *Adelphocoris seticornis* (F.) (Hem., Miridae) new to the Scottish insect fauna list. *Entomologist's mon. Mag.* **83**: 12.

Hodkinson, I. D. (2007) A new introduced species of *Ctenarytaina* (Hemiptera, Psylloidea) damaging cultivated *Eucalyptus parvula* (= *parvifolia*) in Europe. *Deutsche Entomologische Zeitschrift* **54**: 27-33.

Hodkinson, I. D. and Hollis, D. (1987) The legume-feeding psyllids (Homoptera) of the west Palaearctic region. *Bulletin of the British Museum of Natural History* (Entomology) **56**: 1-86. (*Arytainia genistae* (Latreille))

Hodkinson, I. D. and White, I. M. (1979) Homoptera: Psylloidea. *Handbooks for the Identification of British Insects* **2**(5a): 1-98.

Hopkins, G. W. (2000) Additions to the Irish aphid (Hemiptera) list. *Ir. Nat. J.* **26** (1999): 175-176.

Hume, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Hutchinson, G. E. (1982) The harp that once...a note on the discovery of stridulation in the corixid water-bugs. *Ir. Nat. J.* **20**: 457-466.

Irvine, K., Free, G., de Eyto, E., White, J., Allott, N. and Mills, P. (2001) The EC water framework directive and monitoring lakes in the Republic of Ireland. *Freshwater Forum* **16**: 48-64.

Jansen, M. (2009) New and less observed scale insect species for the Dutch fauna (Hemiptera: Coccoidea). *Entomologische Berichten* **69**: 162-168.

Johnson, W. F. (1893) Hemiptera in the North of Ireland. *Entomologist's mon. Mag.* **29**: 35-37.

—— (1901) Note on *Piexodorus lituratus*, Fab. *Entomologist's mon. Mag.* **37**: 73-74.

—— (1915) *Pantilus tunicatus* at Warrenpoint. *Ir. Nat.* **24**: 216-217.

—— (1919) *Ploiaria culiciformis* in Co. Armagh. *Ir. Nat.* **28**: 91.

Judd, S. (1986) *Anthocoris nemoralis butleri* Le Quesne (Hemiptera: Anthocoridae) new to Ireland. *Ir. Nat. J.* **22**: 79.

Kanvil, S., Powell, G. and Turnbull, C. (2014) Pea aphid biotype performance on diverse *Medicago* host genotypes indicates highly specific virulence and resistance functions. *Bulletin of Entomological Research* **104**: 689-701.

Keane, M., McCarthy, R. and Hogan, J. (1989) Forest health surveys in Ireland: 1987 and 1988 results. *Irish Forestry* **46**: 59-62. (Hemiptera: *Elatobium abietinum*)

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2002) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 119-124.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kemp, S. W. (1902) Coleoptera caught in Ireland during May and June, 1902. *Entomologist's mon. Mag.* **3**8: 177-178. (Col., Hem.)

Kennedy, T. F. (1993) Control of seedling pests in sugar beet using pellet - incorporated insecticides. IGAPA Research Meeting abstract. *Irish Journal of Agricultural Research* **32**: 116-117.

Kennedy, T. F. (1994) Capsid damage and control in sugar beet. ITLUS Research Meeting abstract. *Irish Journal of Agricultural Research* **33**: 104-105.

—— (2000) Yield reductions in spring barley due to aphids. *Irish Journal of Agricultural and Food Research* **39**: 490-491.

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

—— (2001) Barley yellow dwarf virus in winter barley in Ireland: yield loss and timing of autumn aphicides in controlling the MAV-strain. *Irish Journal of Agricultural and Food Research* **40**: 55-70.

Kirby, P. (1983) Heteroptera recorded from the Killarney area, 28 August - 7 September 1981. *Ir. Nat. J.* **21**: 45-47.

—— (1991) Hemiptera (Heteroptera and Auchenorhyncha) recorded from south-west Ireland (Cos Cork, Kerry and Clare), September 1989. *Bulletin of the Irish Biogeographical Society* **14**: 90-104.

—— (1993) 1992 Annual exhibition. Hemiptera. *British Journal of Entomology and Natural History* **6**: 77. (Alexander, K. N. A. and Foster, A. P.: interesting Heteroptera from Northern Ireland)

Kirkaldy, G. W. (1899, 1905, 1906) A guide to the study of British waterbugs (Aquatic Rhynchota). *Entomologist* **32**: 296-300. **38**: 173-178, 231-236. **39**: 60-64.

Kment, P. and Beran, L. (2011) Check-list of water bugs (Hemiptera: Heteroptera: Nepomorpha) in Croatia with two new records and four rediscoveries. *Natura Croatica* **20**: 159-178. (*Aphelocheirus aestivalis*, *Corixa panzeri*, *Sigara semistriata*)

Lafferty, H. A. (1948) An enterprising Wren. *Ir. Nat. J.* **9**: 129-130.

Laing, F. (1920) On the Genus *Atheroides* Haliday (Aphidae). *Entomologist's mon. Mag.* **56**: 38-45.

—— (1921) On various genera of British Aphidae (Homoptera). *Entomologist's mon. Mag.* **57**: 118-127.

—— (1951) The standing of the Genus *Pemphigus* Htg. (Hem., Aphididae). *Entomologist's mon. Mag.* **87**: 108-109.

Lansbury, I. (1954) Some notes on the ecology of *Corixa* (*Halicorixa*) *stagnalis* Leach, with some information on the measurement of salinity of brackish habitats. *Entomologist's mon. Mag.* **90**: 139-140.

—— (1959) New county records of aquatic and semi-aquatic Hemiptera-Heteroptera for Co. Clare, Eire. *Entomologist's mon. Mag.* **95**: 155.

—— (1961) Antennal oligomery in the Pentatomidae (Hemiptera-Heteroptera). *Entomologist's Gazette* **12**: 77-79.

—— (1961) *Gerris rufoscutellatus* (Latreille), (Hem., Het., Gerridae) new to Co. Clare, Eire. *Entomologist* **94**: 149-150.

—— (1965) Notes on the Hemiptera, Coleoptera, Diptera and other invertebrates of the Burren, Co. Clare and Inishmore, Aran Islands. *Proceedings of the Royal Irish Academy* **64**B: 89-116.

—— (1965-1966) A revision of the Stenocephalidae Dallas 1852 (Hemiptera-Heteroptera). *Entomologist's mon. Mag.* **101** (1965-1966): 52-93. (1966): 145-160.

Le Quesne, W. J. (1959) Some additions to the British Deltocephalinae (Hem., Cicadellidae) with notes on synonymy. *Entomologist's mon. Mag.* **95**: 281-287.

Le Quesne, W. J. (1960) An examination of the British species of *Macropsis* Lewis and *Hephathus* Ribaut (Hem., Cicadellidae), including some additions to the British list. *Entomologist's mon. Mag.* **96**: 247-255.

—— (1960) Some modifications in the British list of Delphacidae (Hem.), including a new genus and a new species. *Entomologist* **93**: 13-19, 29-35, 54-60.

—— (1960) Hemiptera Fulgoromorpha. *Handbooks for the Identification of British Insects* **2**(3): 1-68.

—— (1964) Some taxonomic changes and additions in the British Cicadellidae including a new species and subspecies. *Proceedings of the Royal Entomological Society of London B* **33**: 73-82.

—— (1965) Hemiptera Cicadomorpha (excluding Deltocephalinae and Typhlocybinae). *Handbooks for the Identification of British Insects* **2**(2a): 1-14.

—— (1968) *Macrosteles ossiannilssoni* (Hem., Cicadellidae), a new species previously confused with *M. sexnotatus* (Fallen). *Entomologist's mon. Mag.* **103** (1967): 190-192.

—— (1968) *Macrosteles ossiannilssoni* Le Quesne (Hem., Cicadellidae) - a correction. *Entomologist's mon. Mag.* **104**: 3.

—— (1969) Hemiptera Cicadomorpha Deltocephalinae. *Handbooks for the Identification of British Insects* **2**(2b): 65-148.

—— (1987) *Cicadella lasiocarpae* Ossiannilsson (Hemiptera: Cicadellidae) new to Britain. *Entomologist's Gazette* **38**: 87-89.

Le Quesne, W. J. and Payne, K. R. (1981) Cicadellidae (Typhlocybinae) with a check list of the British Auchenorhyncha (Hemiptera, Homoptera). *Handbooks for the Identification of British Insects* **11**(2c): 1-95.

Le Quesne, W. J. and Woodroffe, G. E. (1976) Geographical variation in the genitalia of three species of Cicadellidae (Hemiptera). *Systematic Entomology* **1**: 169-172.

Leather, S. R., Walters, K. F. A. and Dixon, A. F. G. (1989) Factors determining the pest status of the bird cherry-oat aphid, *Rhopalosiphum padi* (L.) (Hemiptera: Aphididae), in Europe: a study and review. *Bulletin of Entomological Research* **79**: 345-360. (of little importance in Ireland)

Leston, D. (1956) The status of the pondskater *Limnoporus rufoscutellatus* (Latr.) (Hem., Gerridae) in Britain. *Entomologist's mon. Mag.* **92**: 189-193.

—— (1958) The distribution of waterbugs (Hemiptera-Heteroptera: Hydrocorisae) in Ireland. *Entomologist's mon. Mag.* **94**: 26-31.

Macan, T. T. (1956) A revised key to the British water bugs (Hemiptera-Heteroptera) with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **16**: 1-74.

—— (1965) A revised key to the British water bugs (Hemiptera-Heteroptera) with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **16**: 1-78.

Macan, T. T. and Lund, J. W. G. (1954) Records from some Irish lakes Part I. Mollusca, *Gammarus*, *Asellus*, Ephemeroptera and Heteroptera. Part 2. Phytoplankton. *Proceedings of the Royal Irish Academy* **56**B: 135-158.

MacNeill, N. (1949) Stridulation and diet of *Corixa*. *Ir. Nat. J.* **9**: 276.

—— (1968) Hemiptera-Heteroptera: Irish distribution. *Ir. Nat. J.* **16**: 13.

MacNeill, N. (1969) Hemiptera-Heteroptera - Irish distribution. *Ir. Nat. J.* **16**: 139.
—— (1969) Hemiptera-Heteroptera-Irish distribution. *Ir. Nat. J.* **16**: 209.
—— (1970) Hemiptera-Heteroptera - Irish distribution. *Ir. Nat. J.* **16**: 273-274.
—— (1973) A revised and tabulated list of the Irish Hemiptera-Heteroptera: Part 1 Geocorisae. *Proceedings of the Royal Irish Academy* **73**B: 57-60.
Maki, A. M. (2010) Aquatic macroinvertebrate biodiversity of an Irish constructed wetland system, two years after construction. *Bulletin of the Irish Biogeographical Society* **34**: 128-138.
Makings, P. (1961) *Himacerus mirmicoides* (Costa) in Cork city. *Ir. Nat. J.* **13**: 268-270.
Malumphy, C. (2012) *Paracolopha morrisoni* (Hemiptera: Aphididae, Pemphiginae), an Asian aphid established in Britain. *British Journal of Entomology and Natural History* **25**: 79-83. (record imported from Ireland?)
Malumphy, C., Ostrauskas, H. and Pye, D. (2009) Contribution to the knowledge of jumping plant-lice (Hemiptera, Psylloidea) of Lithuania. *Acta Zoologica Lituanica* **19**: 128-131. (*Arytainilla spartiophila*, *Trioza vitreoradiata*)
Mantell, A. and Anderson, R. (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.
Marshall, T. A. (1865) An essay towards a knowledge of British Homoptera. *Entomologist's mon. Mag.* **2**: 124-126. (*Pediopsis fruticola* Fall.)
Martin, J. H. (2000) Two new British aphid introductions in 1999, in the context of other additions over the preceding thirty years (Sternorrhyncha: Aphidoidea). *Entomologist's Gazette* **51**: 97-105. (*Utamphorophora humboldti*, *Macrosiphum albifrons*)
Martin, J. H., Mifsud, D. and Rapisarda, C. (2000) The whiteflies (Hemiptera: Aleyrodidae) of Europe and the Mediterranean basin. *Bulletin of Entomological Research* **90**: 407-448. (*Pealis quercus* (Signoret), *Siphoninus immaculatus* (Heeger))
Martin, J. H. and Mound, L. A. (2007) An annotated check list of the world's whiteflies (Insecta: Hemiptera: Aleyrodidae). *Zootaxa* **1492**: 1-84. (*Siphoninus phillyreae*)
Mason, J. E. (1903) Some Hemiptera from Kenmare. *Ir. Nat.* **12**: 101.
Massee, A. M. (1955) The county distribution of the British Hemiptera-Heteroptera. Second Edition. *Entomologist's mon. Mag.* **91**: 7-27.
—— (1958) Hemiptera-Heteroptera collected in Northern Ireland. *Entomologist's mon. Mag.* **94**: 247.
—— (1959) *Corixa dentipes* (Thomson) recorded from County Armagh, Northern Ireland. *Entomologist's mon. Mag.* **95**: 271.
McCarthy, R. (1993) Monitoring forest condition in Ireland (1988-91). *Irish Forestry* **50**: 21-34. (*Elatobium abietinum*)
McCarthy, T. K. (1974) A note on some water bugs (Hemiptera-Heteroptera) collected on Cape Clear Island, West Cork. *Entomologist's Rec. J. Var.* **86**: 243, 264.
—— (1975) Some records of the glacial relict waterboatman *Glaenocorisa propingua* (Fieber) (Hemiptera, Corixidae) in Ireland. *Entomologist's Gazette* **26**: 65-66.
McCarthy, T. K. and Walton, G. A. (1980) *Sigara selecta* (Fieb) (Hemiptera-Heteroptera: Corixidae) new to Ireland, with notes on water bugs recorded from the Dingle Peninsula. *Ir. Nat. J.* **20**: 64-66.

McCracken, A. R. and Blackshaw, R. P. (1993) The protection of the Northern Ireland nursery stock industry from harmful organisms. Pp 55-66. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

McCormack, S., Nolan, M. and Regan, E. (2006) Coleoptera, Araneae, and aquatic Hemiptera recorded from three mountain areas in northwestern Ireland. *Bulletin of the Irish Biogeographical Society* **30**: 302-333.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork.

Minchin, D. and Boelens, R. (2020) The hemipteran *Aphelocheirus aestivalis* (Fabricius, 1794) (Insecta: Hemiptera) from Lough Derg. *Ir. Nat. J.* **37**: 43-46.

Moriarty, C. (1973) Distribution of freshwater macroinvertebrates in Ireland. 1967-1972. *Ir. Nat. J.* **17**: 409-412.

Morris, M. G. (1974) Auchenorhyncha (Hemiptera) of the Burren, with special reference to species-associations of the grasslands. *Proceedings of the Royal Irish Academy* **74**B: 7-30.

—— (2002) *Metatropis rufescens* (Herrich-Schaeffer) (Hem., Berytinidae) in Ireland and Wales. *Entomologist's mon. Mag.* **138**: 156.

Mulcahy, M. F., Kelly, T. C. and Holland, C. (1998) Parasites and pathology of Irish freshwater animals. Pp 159-178. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Mullen, K., Fahy, O. and Gormally, M. (2003) Ground flora and associated arthropod communities of forest road edges in Connemara, Ireland. *Biodiversity and Conservation* **12**: 87-101.

Murphy, P. M. and Carter, C. E. (1984) A summer survey of the littoral macroinvertebrate fauna (excluding the Chironomidae) of Lough Neagh, N. Ireland. *Proceedings of the Royal Irish Academy* **84**B: 103-108.

Murray, A. M. (1986) *Limnoporus rufoscutellatus* (Heteroptera: Gerridae) breeding in Ireland. *Entomologist's Rec. J. Var.* **98**: 167-168.

Murray, A. M. and Giller, P. S. (1990) The life-history of *Aquarius najas* De Geer (Hemiptera: Gerridae) in southern Ireland. *Entomologist* **109**: 53-64.

—— (1991) Life history and overwintering tactics of *Velia caprai* Tam. (Hemiptera: Veliidae) in southern Ireland. *Aquatic Insects* **13**: 229-243.

Nash, D. and Hardiman, D. (2013) The juniper shieldbug *Cyphostethus tristriatus* (Fabricius, 1787) (Hemiptera: Acanthosomatidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **37**: 160-164.

Nash, R. (1974) *Neides tipularius* (Linnaeus) (Hemiptera: Berytidae) in Co. Down - a second Irish locality. *Ir. Nat. J.* **18**: 55.

Nash, R. and O'Connor, J. P. (1990) Insects imported into Ireland 9. Records of Orthoptera, Dictyoptera, Homoptera and Hymenoptera including Roger's ant, *Hypoponera punctatissima* (Roger). *Ir. Nat. J.* **23**: 255-257.

—— (2011) Notes on the Irish entomologist Alexander Henry Haliday (1806-1870). *Bulletin of the Irish Biogeographical Society* **35**: 64-112.

National Biodiversity Data Centre (2020) Shieldbug Records. <https://maps.biodiversityireland.ie/Dataset/240>

Nau, B. (2006) The British National Grid. *Hetnews. Newsletter of the Heteroptera Recording Schemes* **Issue 8**: 6.

Neale, M., Nelson, B. and Rippey, B. (2003) Notable records of aquatic insects (Plecoptera, Hemiptera and Coleoptera) from Northern Ireland. *Ir. Nat. J.* **27**: 295-300.

Nelson, B. (1986) Records of Hemiptera-Heteroptera from Co Down including *Alydus calcaratus* (L.) new to Ireland. *Ir. Nat. J.* **22**: 81-82.

—— (1988) *Conostethus brevis* Reuter (Hemiptera: Miridae) new to Ireland. *Ir. Nat. J.* **22**: 454-455.

—— (1995) The distribution of the aquatic and semi-aquatic Heteroptera in Northern Ireland. *Bulletin of the Irish Biogeographical Society* **18**: 66-130.

—— (1997) Records of aquatic Heteroptera from Northern Ireland and Co Kerry. *Ir. Nat. J.* **25**: 342-343.

—— (1997) *Scolopstethus grandis* Horváth new to Ireland and a second Irish record of *S. puberulus* Horváth (Hemiptera-Heteroptera: Lygaeidae). *Ir. Nat. J.* **25**: 343-344.

—— (2000) Aquatic insect communities of Northern Irish freshwaters. *Verh. Internat. Verein. Limnol.* **27**: 891-894. (Col., Hem., Odon.)

—— (2001) Aquatic insect communities of Northern Irish freshwaters. *Verh. Internat. Verein. Limnol.* **27**: 891-894.

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

—— (2005) Musings from Ireland. *Hetnews. Newsletter of the Heteroptera Recording Schemes* **Issue 6**: 1-2.

—— (2011) Bugs. *Biodiversity Ireland* **Issue 8**: 11.

—— (2013) Update from Ireland. *Het News. Newsletter of the Heteroptera Recording Schemes* **19/20**: 7.

—— (2013) Heteroptera on Islay in 2011 - a brief account & impressions of this Scottish island. *Het News. Newsletter of the Heteroptera Recording Schemes* **19/20**: 8. (*Corixa punctata*, *C. iberica*)

—— (2014) Around the British Isles. Ireland. *Het News. Newsletter of the Heteroptera Recording Schemes s* **21**: 8-9.

—— (2014) Confirmation of *Notostira erratica* (Heteroptera: Miridae) as a British species with comments on its identification. *British Journal of Entomology and Natural History* **27**: 151-154.

—— (2015) Around the British Isles - Ireland. *Het News. Newsletter of the Heteroptera Recording Schemes* **22**: 12.

—— (2015) Biodiversity tales. Heteroptera. *Biodiversity Ireland* **Issue 11**: 20-21.

—— (2015) Catch the bug. *Biodiversity Ireland* **Issue 12**: 12-14.

—— (2016) Around the British Isles - Ireland. *Het News. Newsletter of the Heteroptera Recording Schemes* **23**: 13.

—— (2016) Biodiversity tales. Bugs. *Biodiversity Ireland* **Issue 14**: 18-19.

—— (2017) Biodiversity tales. Shieldbugs and other true bugs. *Biodiversity Ireland* **Issue 16**: 19.

Nelson, B. (2018) Biodiversity tales. Shieldbugs and other true bugs. *Biodiversity Ireland* **Issue 18**: 17-18.

—— (2018) *Ranatra linearis* (Linnaeus) (Hemiptera, Nepidae) and *Berytinus clavipes* (Fabricius) (Hemiptera, Berytidae) two species of Heteroptera new to Ireland. *Ir. Nat. J.* **36**: 48-49.

—— (2018) Notable records of Heteroptera from Ireland including the first occurrence of *Deraeocoris flavilinea* (A. Costa). *British Journal of Entomology and Natural History* **31**: 142-146.

—— (2019) Biodiversity tales. Bugs. *Biodiversity Ireland* **Issue 19**: 19-20.

—— (2020) True Bugs (Heteroptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/111>

Nelson, B., Doherty, L. and Byrne, C. (2020) The genus *Megacoelum* (Hemiptera, Miridae) in Ireland and the first record of *M. infusum* (Herrich-Schäffer, 1837). *Entomologist's Rec. J. Var.* **132**: 50-52.

Nelson, B., Hermes, D. and Aukema, B. (2015) First Irish records for seven species of Heteroptera (Hemiptera: Miridae, Anthocoridae) and records of some rarely reported species. *Ir. Nat. J.* **34**: 17-26.

Nelson, B. and Smiddy, P. (1997) Records of the bat bug *Cimex pipistrelli* Jenyns (Hemiptera: Cimicidae) from Cos Cork and Waterford. *Ir. Nat. J.* **25**: 344-345.

Nelson, B. H. and Anderson, R. (1998) Land and freshwater invertebrates. Pp 85-88. *In* Kaznowska, S. (ed.) *Coastal directory of the British Isles.* Region 4/17. JNCC, Peterborough.

Newstead, R. (1895) Observations on Coccidae (No. 11). *Entomologist's mon. Mag.* **31**: 165-167.

—— (1901-1903) *Monograph of the Coccidæ of the British Isles*. 2 volumes. Ray Society, London.

Nichols, A. R. (1895) The stridulation of *Corixa*. *Ir. Nat.* **4**: 79. (with comments by Carpenter, G. H. pp 79-80)

Nieser, N. (1978) Heteroptera. Pp 230-285. *In* Illies, J. (ed.) *Limnofauna Europaea.*

Nixon, D., Okely, E. F. and Blackith, R. M. (1975) The distribution and morphometrics of spittle-bugs on Irish blanket bog. Irish contribution to International Biological Programme (No. 5). *Proceedings of the Royal Irish Academy* **75**B: 305-315.

O'Connor, Á., Kavanagh, B. and Reynolds, J. D. (2001) Corixidae (Hemiptera Heteroptera) in two artificial lakes on Irish cutaway raised bog. *Verh. Internat. Verein. Limnol.* **27** (2000): 1670-1674.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1986) Notes on *Scolopostethus puberulus* Horvath and *Limnoporus rufoscutellatus* (Latreille) (Hemiptera) in Ireland. *Entomologist's Rec. J. Var.* **98**: 33-35.

—— (1989) Notes on Irish *Temnostethus* (Hem.-Het., Anthocoridae) in the National Museum of Ireland. *Entomologist's mon. Mag.* **125**: 206.

O'Connor, J. P. (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2001) *Craspedolepta nebulosa* (Zetterstedt) (Hemiptera.: Psyllidae), a psyllid new to Ireland. *Entomologist's Rec. J. Var.* **113**: 189-190.

—— (2007) *Trioza remota* Förster (Homoptera: Psyllidae) new to Ireland. *Ir. Nat. J.* **28**: 522.

—— (2010) A second Irish record of *Trioza remota* Förster (Homoptera: Psyllidae). *Ir. Nat. J.* **30** (2009): 141.

—— (2011) *Kaltenbachiella pallida* (Haliday) (Hemiptera: Aphididae) in Ireland. *Cecidology* **26**: 44-45.

—— (2012) An Irish male of *Craspedolepta nebulosa* (Zetterstedt) (Hem.: Psyllidae). *Entomologist's Rec. J. Var.* **124**: 204.

O'Connor, J. P. and Ashe, P. (1996) *Elasmostethus tristriatus* (F.) (Hem., Acanthosomatidae), confirmed as an Irish species. *Entomologist's mon. Mag.* **132**: 314.

—— (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P., Ashe, P. and Wistow, S. (1997) *Trioza alacris* Flor (Hemiptera), a gall-causing psyllid new to Ireland. *Entomologist's Rec. J. Var.* **109**: 135-136.

O'Connor, J. P., Ashe, P., Wistow, S. and O'Connor, M. A. (1995) Further records of Irish galls (Hemiptera, Diptera, and Eriophyoidea). *Cecidology* **10**: 70-81.

O'Connor, J. P., Bowdrey, J. P., Redfern, M. and Higginbottom, T. (2008) Records of Irish galls (Fungi; Insecta: Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera; Acarina: Eriophyidae) including eight species new to Ireland and one deletion from the Irish list. *Bulletin of the Irish Biogeographical Society* **32**: 40-61.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P., Dunne, R. and Whelton, A. (2004) *Trioza vitreoradiata* (Maskell) (Homoptera: Psylloidea), a New Zealand species new to Ireland. *Ir. Nat. J.* **27**: 349-350.

O'Connor, J. P. and Fox, H. (2000) The horse chestnut scale *Pulvinaria regalis* Canard (Hemiptera: Coccidae) new to Ireland. *Entomologist's Gazette* **51**: 145-146.

O'Connor, J. P., Gertsson, C.-A. and Malumphy, C. (2013) A review of the Irish scale insects (Hemiptera: Coccoidea). *Ir. Nat. J.* **32**: 32-44.

O'Connor, J. P. and Malumphy, C. (2011) A review of the Irish jumping plantlice (Hemiptera: Psylloidea). *Bulletin of the Irish Biogeographical Society* **35**: 21-63.

—— (2020) Addendum to "A review of the Irish Jumping Plant-Lice (Hemiptera: Psylloidea)". *Bulletin of the Irish Biogeographical Society* **44**: 114-123.

O'Connor, J. P. and Nash, R. (1981) Notes on five species of insect (Hemiptera: Coleoptera) imported into Ireland. *Ir. Nat. J.* **20**: 299-300.

—— (1982) Further records of insects (Dictyoptera, Lepidoptera, Coleoptera, Diptera) imported into Ireland. *Ir. Nat. J.* **20**: 393-395.

O'Connor, J. P. and Nash, R. (1983) Insects imported into Ireland 5. Records of Orthoptera, Hemiptera, Hymenoptera and Coleoptera. *Ir. Nat. J.* **21**: 114-117.

—— (1986) Insects imported into Ireland 8. Records of Hemiptera, Coleoptera, Diptera and Lepidoptera. *Ir. Nat. J.* **22**: 104-107.

O'Connor, J. P., Nash, R. and Anderson, R. (1983) Insects imported into Ireland 4. Records of Dictyoptera, Hemiptera, and Coleoptera (including *Pycnomerus fuliginosus* Erichson). *Ir. Nat. J.* **21**: 81-83.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

—— (2013) A second Irish locality for the Scarab Bug *Thyreocoris scarabaeoides* (L.) (Hem.: Thyreocoridae). *Entomologist's Rec. J. Var.* **125**: 70-72.

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25.

—— (1978) Further notes on the aquatic invertebrates of Hare Island and its environs, Lough Ree, Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **2**: 37-39.

O'Connor, J. P. and O'Connor, M. A. (1979) A record of *Aphelochirus aestivalis* forma *montandoni* Horvath (Insecta: Hemiptera) from Tinarana Bay, Lough Derg, Co. Clare. *Ir. Nat. J.* **19**: 329.

—— (1993) Notes on the Irish Reduviidae (Hemiptera). *Entomologist's Rec. J. Var.* **105**: 49-52.

O'Connor, J. P., O'Connor, M. A. and de Courcy Williams, M. (1988) Notes on *Berytinus montivagus* (Meyer) and *Metatropis rufescens* (Herrich-Schäffer) (Hemiptera) in Ireland. *Entomologist's Rec. J. Var.* **100**: 81-84.

O'Connor, J. P., O'Connor, M. A., Wistow, S. and Ashe, P. (1998) *Phyllocoptes gibbosus* Nalepa (Eriophyoidea) new to Ireland, with notes on other galls. *Cecidology* **13**: 3-8.

O'Connor, J. P., O'Grady, M. F. and Bracken, J. J. (1986) Observations on the Corixidae (Insecta: Hemiptera) of the Killarney Lakes and district. *Bulletin of the Irish Biogeographical Society* **9**: 15-26.

O'Connor, J. P. and Speight, M. C. D. (1987) *Macrosiphum albifrons*, *Dictenida bimaculata*, *Callaspidia defonscolombei* and *Xyalaspis petiolata*: insects new to Ireland. *Ir. Nat. J.* **22**: 199-201.

O'Connor, J. P. and Waldren, S. (1995) A review of the Irish distribution of *Arctorthezia cataphracta* (Olafsen) (Hemiptera: Coccoidea). *Bulletin of the Irish Biogeographical Society* **18**: 19-21.

O'Connor, J. P., Wistow, S., Ashe, P. and O'Connor, M. A. (1997) Nine (Hemiptera, Diptera and Eriophyoidea) new to Ireland with notes on other species. *Cecidology* **12**: 14-23.

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Paine, T. D., Steinbauer, M. J. and Lawson, S. A. (2011) Native and exotic pests of *Eucalyptus*: a worldwide perspective. *Annual Review of Entomology* **56**: 181-201.

Pearce, E. J. (1931) Two additional localities for the water-bug *Aphelochirus aestivalis* F., forma *montandoni* Horv. *Entomologist's mon. Mag.* **67**: 249-250.

Pearce, E. J. (1938) An additional English record for the water-bug *Aphelochirus aestivalis* F. *Entomologist's mon. Mag.* **74**: 232-233.

Pearce, E. J. and Walton, G. A. (1939) A contribution towards an ecological survey of the aquatic and semi-aquatic Hemiptera-Heteroptera (water-bugs) of the British Isles. *Transactions of the Society of British Entomology* **6**: 149-180.

Powell, W. (1980) *Toxares deltiger* (Haliday) (Hymenoptera: Aphidiidae) parasitising the cereal aphid, *Metopolophium dirhodum* (Walker) (Hemiptera: Aphididae), in southern England: a new host-parasitoid record. *Bulletin of Entomological Research* **70**: 407-409.

Purvis, G., Chauzat, M.-P., Segonds-Pichon, A. and Dunne, R. (2002) Life history and phenology of the eucalyptus psyllid, *Ctenarytaina eucalypti* in Ireland. *Annals of Applied Biology* **141**: 283-292.

Rabitsch, W. (2008) Alien true bugs of Europe (Insecta: Hemiptera: Heteroptera). *Zootaxa* **1827**: 1-44. (*Anthocoris butleri*, *Lyctocoris campestris*)

Ramsay, A. (2015) Request for photographs of *Peribalus* spp. *Het News. Newsletter of the Heteroptera Recording Schemes* **22**: 2.

Redfern, M, Shirley, P. and Bloxham, M. (2011) *British plant galls.* Second edition. FSC. Occasional Publication **125**. iv + 432pp. (*Cacopsylla alaterni*)

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reilly, P. and McCarthy, T. K. (1990) Observations on the natural diet of *Cymatia bonsdorffi* (C. Sahlb) (Heteroptera: Corixidae); an immunological analysis. *Hydrobiologia* **196**: 159-166.

—— (1991) Water mite parasitism of Corixidae: infection parameters, larval mite growth, competitive interaction and host response. *Oikos* **60**: 137-148.

—— (1993) Attachment site selection of *Hydrachna* and *Eylais* (Acari: Hydrachnellae) watermite larvae infecting Corixidae (Hemiptera: Heteroptera). *Journal of Natural History* **27**: 599-607.

Renouf, L. P. W. (1934) Hemiptera inhabiting a salt marsh on the south coast of Co. Cork. I.F.S. *Entomologist* **67**: 129-130.

Reynolds, J. D. (1985) Karstic freshwater habitats of the Aran Islands, Co Galway, with preliminary notes on their fauna. *Ir. Nat. J.* **21**: 430-435.

—— (1985) Invertebrates of Irish midlands raised bogs: part II. Odonata, aquatic Hemiptera, Trichoptera. *Bulletin of the Irish Biogeographical Society* **8**: 98-102.

—— (1986) Some invertebrates of Lough Roe, Co. Offaly: a rare and endangered bogland habitat. *Bulletin of the Irish Biogeographical Society* **9**: 41-45.

—— (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684.

—— (2008) Man-handled? How and when did freshwater invertebrates cross the sea to Ireland? A review with particular reference to crustaceans. Pp 83-95. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream - and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730.

Robertson, J. (1895) The stridulation of *Corixa*. *Ir. Nat.* **4**: 319.

Roth, S. and O'Connor, J. P. (1993) A review of the Irish Nabinae (Insecta: Hemiptera, Nabidae). *Bulletin of the Irish Biogeographical Society* **16**: 9-17.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Ryan, R. (2012) An addendum to Southwood & Leston's Land and Water Bugs of the British Isles. *British Journal of Entomology and Natural History* **25**: 205-215.

Ryan, R. P. (2014) The county distribution of the Hemiptera-Heteroptera of the British Isles, fourth edition. *Hemipterist* **1**: 8-103

—— (2015) An addendum to the county distribution of the Hemiptera-Heteroptera of the British Isles, fourth edition. *Hemipterist* **2**: 1-3. (*Macrolophus pygmaeus* deleted)

—— (2016) Species accounts for the Hemiptera-Heteroptera reported as new to the British Isles since Southwood & Leston (1959): 1970-1979. *Hemipterist* **3**: 57-65. (*Temnostethus tibialis*, *Orius laticollis*, *Orthops basalis*)

—— (2016) Species accounts for the Hemiptera-Heteroptera reported as new to the British Isles since Southwood & Leston (1959): 1980-1992. *Hemipterist* **3**: 115-123 (*Corixa iberica*)

—— (2016) The division of Ryan's list of Hemiptera-Heteroptera for Ireland into vice-county lists for H1 to H40. *Hemipterist* **3**: 19-38.

—— (2017) Species accounts for the Hemiptera-Heteroptera reported as new to the British Isles since Southwood & Leston (1959): 2002 to 2007. *Hemipterist* **4**: 112-126. (*Micronecta griseola*)

—— (2018) Some negative results in the search for *Notostira erratica* (Linnaeus) (Miridae) in Sussex and Yorkshire. *Hemipterist* **5**: 37-38.

—— (2018) Species accounts for the Hemiptera-Heteroptera reported as new to the British Isles since Southwood & Leston (1959): 2008 to 2014. *Hemipterist* **5**: 78-91. (*Leptoglossus occidentalis*)

—— (2018) New vice-county records of Hemiptera-Heteroptera from the Biodiversity Ireland website. *Hemipterist* **5**: 205-210.

—— (2018) The Vice-county Distribution and Atlas of the Hemiptera-Heteroptera of the British Isles is now available. *British Journal of Entomology and Natural History* **31**: 204-205.

—— (2018) *Corizus hyoscyami* (L.) (Hemiptera: Rhopalidae) goes north. *British Journal of Entomology and Natural History* **31**: 245-246.

—— (2019) The general geographical distribution of the Hemiptera-Heteroptera of the British Isles. *British Journal of Entomology and Natural History* **32**: 47-50.

Ryan, R. P. (2019) The Vice-county Distribution and Atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.

—— (2019) Expansion of the interim release of the Vice-county Distribution and Atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 282.

—— (2019) The most widespread members of the Hemiptera-Heteroptera in the British Isles. *British Journal of Entomology and Natural History* **32**: 239-240.

—— (2019) Recent changes to the list of Hemiptera-Heteroptera of the British Isles. *British Journal of Entomology and Natural History* **32**: 363-364.

—— (2020) A review of the published records for the Hemiptera-Heteroptera of the British Isles: (1) introduction. *Hemipterist* **7**: 1-5. (there are another eleven articles on pp 6-276 giving the records for various families based mainly on Halbert (1935))

Salisbury, A., Malumphy, C. and Halstead, A. J. (2011) Pittosporum psyllid *Trioza vitreoradiata* (Hemiptera: Triozidae) expanding distribution and host range in the UK. *British Journal of Entomology and Natural History* **24**: 69-73.

Saunders, E. (1892) *The Hemiptera Heteroptera of the British Islands: a descriptive account of the families, genera, and species indigenous to Great Britain and Ireland: with notes as to localities, habitats, etc.* L. Reeve & Co., London.

—— (1903) Three weeks in South Kerry. Hemiptera. *Ir. Nat.* **12**: 65.

Savage, A. and Parkin, E. (1998) The diagnostic morphological features of British *Sigara striata*, *S. dorsalis* and intermediate specimens (Corixidae), with a new key for identification of adult males. *Freshwater Forum* **10**: 35-48.

Savage, A. A. (1989) Adults of the British aquatic Hemiptera Heteroptera: a key with ecological notes. *Scientific Publications of the Freshwater Biological Association* **No. 50**: 1-173.

—— (1994) The distribution of Corixidae in relation to the water quality of British lakes: a monitoring model. *Freshwater Forum* **4**: 32-61.

Scott, J. (1862) On Hemiptera, commonly called bugs. *The Entomologist's Annual* **1862**: 150-157.

Scudder, G. C. E. (1957) The subspecies of *Ischnodemus sabuleti* (Fallen) (Hem., Lygaeidae). *Entomologist's mon. Mag.* **93**: 14-18.

—— (1958) On *Salda morio* Zett. and *S. muelleri* (Gmel.) (Hem., Saldidae) in Britain. *Entomologist's mon. Mag.* **94**: 190-192.

Shaw, R. (1909) Supposed poisoning by "Cuckoo-spittle". *Ir. Nat.* **18**: 243.

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106.

Southwood, T. R. E. and Leston, D. (1959) *Land and water bugs of the British Isles.* Frederick Warne, London & New York. (Facsimile edition published 2005 by Pisces Conservation, Lymington)

Southwood, T. R. E. and Scudder, G. C. E. (1956) The bionomics and immature stages of the Thistle Lace Bugs (*Tingis ampliata* H.-S. and *T. cardui* L.; Hem., Tingidae). *Transactions of the Society of British Entomology* **12**: 93-112.

Speight, M. C. D. (1977) Athlone Field Meeting: insects collected on and near the shores of Lough Ree. *Bulletin of the Irish Biogeographical Society* **1**: 27-36. (*Salda morio* & *S. muelleri*)

—— (1980) *Chiloxanthus pilosus*, *Palloptera modesta* and *Pipizella heringi* confirmed as Irish species. *Ir. Nat. J.* **20**: 72-73.

—— (1985) The extinction of indigenous *Pinus sylvestris* in Ireland: relevant faunal data. *Ir. Nat. J.* **21**: 449-453.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Speight, M. C. D. and Legrand, J. (1984) *Coenagrion lunulatum* (Odonata): morphology of the female and notes on a second Irish colony. *Ir. Nat. J.* **21**: 237-242.

Starf, P. (1974) Parasite spectrum (Hym. Aphidiidae) of aphids associated with *Galium*. *Entomologica Scandinavica* **5**: 73-80.

Stelfox, A. W. (1924) *Therapha hyoscyami* L. on the Wicklow Coast. *Ir. Nat.* **33**: 68.

—— (1938) *Metatropis rufescens* H.-S.: a plant-bug new to Ireland. *Ir. Nat. J.* **7**: 88.

—— (1965) Seven species of Hemiptera now recorded for the first time from Ireland. *Ir. Nat. J.* **15**: 46-47.

Stendall, J. A. S. (1922) Felted Beech Coccus in Ireland. *Ir. Nat.* **31**: 96.

Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast.

Stroyan, H. L. G. (1977) Homoptera Aphidoidea (Part) Chaitophoridae and Callaphididae. *Handbooks for the Identification of British Insects* **2**(4a): i-viii, 1-130.

Szita, É., Kaydan, M. B., Benedicty, Z. K., Tanaka, H., Fetykó, K. and Kozár, F. (2015) The genus *Arctorthezia* Cockerell (Hemiptera, Ortheziidae) with the description of a new species. *ZooKeys* **472**: 59-75.

Telfer, M. G. (2020) New vice-county records of Hemiptera-Heteroptera. *Hemipterist* **7**: 312-319.

—— (2020) *Delphacodes capnodes* (Scott) (Delphacidae) new to Ireland. 2019 Annual Exhibition. *British Journal of Entomology and Natural History* **33**: 180.

Theobald, F. V. (1913) Appendix - First list of Aphides found with *Myrmica*. *Entomologist's Rec. J. Var.* **25**: 48-51. (Hem., Hym.)

—— (1914) Additions to the list of Kent Aphididae. *Entomologist* **47**: 100-104.

—— (1916) Notes on Aphididae found in ant's nests. *Entomologist* **49**: 49-52. (Hem., Hym.)

—— (1916) Notes on new and little known British aphides. *Entomologist* **49**: 182-185.

—— (1919) New and little known British aphides. *Entomologist* **52**: 157-181.

—— (1925) New and little known British aphides. *Entomologist's mon. Mag.* **61**: 71-81.

Theobald, F. V. (1926-1929) *The Plantlice or Aphididae of Great Britain*. 3 volumes. Headley Brothers, Invicta Press, Ashford, Kent.

—— (1927) Notes on British aphides with descriptions of two new species. *Entomologist's mon. Mag.* **63**: 30-34. (*Amphorophora rhinanthi* Schouten)

—— (1929) Recent additions to the Irish fauna and flora. List of aphides found in Ireland. *Proceedings of the Royal Irish Academy* **39**B: 37-41.

Thompson, E., Cotton, D. C. F. and Ryan, S. (2002) Lough Gill Environmental Management Project. *Verh. Internat. Verein. Limnol.* **27** (2001): 3650-3653.

Thompson, M. (1894) Stridulation of *Corixa*. *Ir. Nat.* **3**: 114.

—— (1895) The stridulation of *Corixa. Ir. Nat.* **4**: 224.

Tobin, C. M. and McCarthy, T. K. (2004) The corixid communities of lowland turloughs in the Galway area and Lough Corrib. *Ir. Nat. J.* **27**: 450-457.

Tully, O., McCarthy, T. K. and O'Donnell, D. (1991) The ecology of the Corixidae (Hemiptera: Heteroptera) in the Corrib catchment, Ireland. *Hydrobiologia* **210**: 161-169.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

van der Noll, L. and Nelson, B. (2017) *Deraeocoris ruber* (L.) and *Closterotomus trivialis* (Costa) two plant bugs (Hemiptera, Miridae) new to Ireland from Co. Cork. *Ir. Nat. J.* **35**: 133-134.

Vandegehuchte, M. L., de la Peña, E. and Bonte, D. (2010) Aphids on *Ammophila arenaria* in Belgium: first reports, phenology and host expansion. *Belgian Journal of Zoology* **140**: 77-80. (*Schizaphis rufula*)

Walker, F. (1848) Decriptions of aphides. *Annals and Magazine of Natural History* Series 2. **2**: 43-48.

—— (1849) Descriptions of aphides. *Annals and Magazine of Natural History* Series 2. **3**: 43-53.

Walker, J. J. (1933) The British Hemiptera-Heteroptera of the Dale Collection. *Entomologist's mon. Mag.* **69**: 234-245.

Walsh, L. E., Gaffney, M. T., Malloch, G. L., Foster, S. P., Williamson, M. S., Mangan, R. and Purvis, G. (2019) First evidence of retained sexual capacity and survival in the pyrethroid resistant *Sitobion avenae* (F.) (Hemiptera: Aphididae) SA3 super-clone following exposure to a pyrethroid at current field-rate. *Irish Journal of Agricultural and Food Research* **58**: 21-26.

Walsh, L. E., Schmidt, O., Williamson, M. S. and Gaffney, M. T. (2020) In-field prevalence of resistant grain aphid *Sitobion avenae* (Fabricius). *Biology & Environment: Proceedings of the Royal Irish Academy* **120**B: 29-38.

Walshe, A. and O'Connor, J. P. (2020) The water-stick Insect *Ranatra linearis* (L.) (Hemiptera: Nepidae) new to County Waterford, Ireland. *Bulletin of the Irish Biogeographical Society* **44**: 95-101.

Walton, G. A. (1936) A new species of Corixidae, *Sigara pearcei* (Hemipt.) from Ireland; together with descriptions of its closely related species. *Transactions of the Society of British Entomology* **3**: 33-47.

Walton, G. A. (1938) The British species of *Micronecta* (Corixidae, Hemipt.). *Transactions of the Society of British Entomology* **7**: 259-270, 5 pls.

—— (1939) Two water bugs new to Great Britain: *Microvelia pygmaea* Duf. and *Microvelia umbricola* Wrob. (Hemipt). *Journal of the Society for British Entomology* **2**: 26-33, 2 pls.

—— (1966) *Saldula opacula* (Zetterstedt) 1840 (Hemiptera) a shorebug new to Ireland. *Ir. Nat. J.* **15**: 218-225.

—— (1981) *Microvelia pygmaea* (Dufour, 1833) (Hemiptera: Veliidae), a flightless water bug new to Ireland. *Ir. Nat. J.* **20**: 223-228.

—— (1985) *Microvelia pygmaea* (Durfour) (Hemiptera: Veliidae) in Ireland. *Ir. Nat. J.* **21**: 493-495.

—— (1986) *Saldula connemarae* sp. n. (Hemiptera: Saldidae), a new species of shore bug from Co Galway, Ireland. *Ir. Nat. J.* **22**: 51-52.

Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin

Webb, M. D. and Viraktamath, C. A. (2009) Annotated check-list, generic key and new species of Old World Deltocephalini leafhoppers with nomenclatorial changes in the *Deltocephalus* group and other Deltocephalinae (Hemiptera, Auchenorrhyncha, Cicadellidae). *Zootaxa* **2163**: 1-64. (not accessed)

Werner, D. J. (2002) Die Verbreitung der Bauchkielwanze *Cyphostethus tristriatus* (Heteroptera: Acanthosomatidae) an Zypressengewächsen (Cupressaceae) in Deutschland. *Heteropteron* **14**: 7-15.

Wieczorek, K. (2009) A revision of the genus *Atheroides* Haliday, 1839 (Hemiptera: Aphididae: Chaitophorinae). *Zoological Studies* **48**: 693-708. (*A. hirtellus*, *A. serrulatus*)

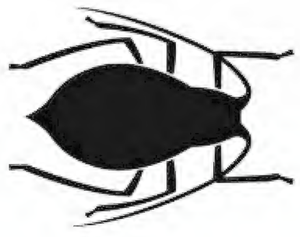
Wilkins, N. P. (1968) A new record of *Aphelocheirus aestivalis* (Hemiptera-Heteroptera) in Ireland. *Ir. Nat. J.* **16**: 106.

Williams, D. J. (1962) The British Pseudococcidae (Homoptera: Coccoidea). *Bulletin of the British Museum of Natural History* (Entomology) **12**: 1-79.

—— (1985) The British and some other European Eriococcidae (Homoptera: Coccoidea). *Bulletin of the British Museum of Natural History* (Entomology) **51**: 347-393. (*Eriococcus devoniensis* (Green))

Wilson, M., Stewart, A., Biederman, R., Nickel, H. and Niedringhaus, R. (2015) *The Planthoppers and Leafhoppers of Britain and Ireland Identification keys to all families and genera and all British and Irish species not recorded from Germany*. WABV, Germany.

Wilson, M. R. (2001) The rhododendron leafhopper, *Graphocephala fennahi* Young (Hemiptera; Cicadellidae) in Wales. *British Journal of Entomology and Natural History* **14**: 172. (mention of Irish record)



Wilson, M. R., Webb, M. D. and della Giustina, W. (2006) On the type species of the planthopper genus *Megamelodes* Le Quesne, 1960, with a lectotype designation for *M. lequesnei* Wagner from James Edwards material (Hemiptera: Fulgoromorpha, Delphacidae). *Entomologist's Gazette* **57**: 271-274. (Edwards' collection is in the National Museum of Ireland)

Wood-Baker, C. S. (1950) Records of three British aphids (Hem.). *Entomologist's mon. Mag.* **86**: 270.

—— (1951) Records of five European aphids (Hem.). *Entomologist's mon. Mag.* **87**: 271.

—— (1951) Records of fourteen European aphids (Hem.). *Entomologist's mon. Mag.* **87**: 311-312.

—— (1953) Records of seven European aphids (Hem.). *Entomologist's mon. Mag.* **89**: 12.

—— (1953) Records of forty-two European aphids (Hem.). *Entomologist's mon. Mag.* **89**: 68-70.

—— (1953) Records of seventy European aphids (Hem.). *Entomologist's mon. Mag.* **89**: 108-113.

—— (1953) Records of twenty European aphids (Hem.). *Entomologist's mon. Mag.* **89**: 176-177.

—— (1953) Records of forty-six European aphids (Hem.). *Entomologist's mon. Mag.* **89**: 265-270.

—— (1954) Records of European aphids (Hem.). *Entomologist's mon. Mag.* **90**: 149-153.

—— (1955) Further records of European aphids (Hem.). *Entomologist's mon. Mag.* **91**: 60-63.

—— (1955) Records of European aphids (Hem.). *Entomologist's mon. Mag.* **91**: 147-153.

—— (1964) Records of sixty-six European and British aphids (Hem. Aphididae). *Entomologist's mon. Mag.* **100**: 43-48.

—— (1965) Aphidivorous Cecidomyiidae (Dipt.) an investigation of the occurrence and bionomics of aphid-eating gall-midges, mainly in Britain. *Entomologist's mon. Mag.* **100**: 212-231.

—— (1967) Records of fifty-six British and European aphids (Hem., Aphididae) with a note concerning aphids found on Onagraceae. *Entomologist's mon. Mag.* **103**: 14-22.

—— (1970) Records of *Rhopalomyzus poae* Gillette (Hem., Aphididae) in Britain with a note on its morphology. *Entomologist's mon. Mag.* **106**: 79-81.

—— (1972) A new food-plant for *Macrosiphum* (*Stiobion*) *avenae* F. in Britain, with biometric data (Hem., Aphididae). *Entomologist's mon. Mag.* **107** (1971): 185-187.

Wood-Baker, C. S. and Hopkins, G. W. (1998) The oviparous female and apterous male of *Iziphya bufo* (Walker 1848) (Hem., Aphididae). *Entomologist's mon. Mag.* **134**: 239-240.

—— (2000) The oviparous female of *Staegeriella necopinata* (Börner, 1939) (Hem., Aphididae). *Entomologist's mon. Mag.* **136**: 53-54.

Woodroffe, G. E. (1962) Some recent captures of Hemiptera-Heteroptera. *Entomologist's mon. Mag.* **98**: 207.

—— (1967) The British *Teratocoris* Fieber 1858 (Hem., Miridae) including *T. elegans* sp. nov. *Entomologist* **100**: 229-237.

Woodroffe, G. E. (1977) *Notostira erratica* (L.) and *N. elongata* (Geoffroy) (Hem., Miridae) in the British Isles. *Entomologist's Gazette* **28**: 123-126.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.



CHAPTER 10. *HYMENOPTERA

Anon. (1894) (Hymenoptera from Drogheda). *Ir. Nat.* **3**: 181.

—— (1896) Mildness of the Season. *Ir. Nat.* **5**: 87.

—— 1898) (Hymenoptera from Cratloe). *Ir. Nat.* **7**: 57.

—— (1905) (*Formica rufa*). *Proceedings of the Belfast Naturalists' Field Club* (n.s.) **5**: 401.

—— (1905) (*Sirex gigas*). *Proceedings of the Belfast Naturalists' Field Club* (n.s.) **5**: 486.

—— (1913) A few more Irish Ichneumonidae. *Ir. Nat.* **22**: 43.

—— (1924) (*Psithyrus rupestris*). *Ir. Nat.* **33**: 40.

—— (1929) Active Service Unit (A.S.U.). *Ir. Nat. J.* **2**: 149.

—— (1931) (Bee study in the meadows). *Ir. Nat. J.* **3**: 258.

—— (1933) (*Collectes daviesana*). *Proceedings of the Belfast Naturalists' Field Club* **9**: 230.

—— (1935) (*Osmia aurulenta*). *Ir. Nat. J.* **5**: 267.

—— (1935) (*Andrena carbonaria*) *Ir. Nat. J.* **5**: 288.

—— (1936) (Hymenoptera from Kilkenny). *Ir. Nat. J.* **6**: 152.

—— (1979) The 1978 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **12**: 1-16. (p. 15 *Rogas pulchripes* (Wesmael), *R. rugulosus* (Nees) (Braconidae))

—— (1999) Call for assistance with a new survey of the social wasps of Britain and Ireland for 1999/2000. *British Journal of Entomology and Natural History* **12**: 31-32.

—— (2011) Meeting reports. 'Invasive insects: implications for plant health, animal health, public health and the environment'. *Antenna* **35**: 192. (bumblebees)

—— (2020) News. Bumblebee monitoring scheme. *Biodiversity Ireland* **Issue 20**: 5.

Abram, P. K., McPherson, A. E., Kula, R., Hueppelsheuser, T., Thiessen, J., Perlman, S. J., Curtis, C. I., Fraser, J. L., Tam, J., Carrillo, J., Gates, M., Scheffer, S., Lewis, M. and Buffington, M. (2020) New records of *Leptopilina*, *Ganaspis*, and *Asobara* species associated with *Drosophila suzukii* in North America, including detections of *L. japonica* and *G. brasiliensis*. *Journal of Hymenoptera Research* **78**: 1-17.

Achterberg, C. van (1983) Revisionary notes on the genera *Dapsilarthra* auct. and *Mesocrina* Foerster (Hymenoptera, Braconidae, Alysiinae). *Tijdschrift voor Entomologie* **126**: 1-24, figs 1-108.

—— (1983) Revisionary notes on the subfamily Gnaptodontinae, with description of eleven new species (Hymenoptera, Braconidae). *Tijdschrift voor Entomologie* **126**: 25-57, figs 1-131.

Achterberg, C. van (1985) Notes on Braconidae I-IV. IV. The *Aleiodes dispar*-group of the Palaearctic region (Hymenoptera: Braconidae: Rogadinae) (pp 178-187). *Zoologische Mededelingen, Leiden* **59**: 163-187.

—— (1988) The genera of the *Aspilota*-group and some descriptions of fungicolous Alysiini from The Netherlands (Hymenoptera: Braconidae: Alysiinae). *Zoologische Verhandelingen, Leiden* **247**: 3-88.

—— (1988) Revision of the subfamily Blacinae Foerster (Hymenoptera: Braconidae). *Zoologische Verhandelingen, Leiden* **249**: 3-324.

—— (1990) Revision of genera *Foersteria* Szépligeti and *Polydegmon* Foerster (Hymenoptera: Braconidae). *Zoologische Verhandelingen, Leiden* **257**: 1-32.

—— (1990) Revision of the Western Palaearctic Phanerotomini Foerster (Hymenoptera: Braconidae). *Zoologische Verhandelingen, Leiden* **255**: 3-106.

—— (1993) Revision of the subfamily Macrocentrinae Foerster (Hymenoptera: Braconidae) from the Palaearctic region. *Zoologische Verhandelingen, Leiden* **286**: 3-110.

—— (1997) Revision of the Haliday collection of Braconidae (Hymenoptera). *Zoologische Verhandelingen, Leiden* **314**: 3-115.

Achterberg, C. van and Aartsen, B. van (1986) The European Pamphiliidae (Hymenoptera: Symphyta), with special reference to The Netherlands. *Zoologische Verhandelingen, Leiden* **234**: 3-98.

Achterberg, C. van and Altenhofer, E. (2013) Notes on the biology of *Seleucus cuneiformis* Holmgren (Hymenoptera, Ichneumonidae, Ctenopelmatinae). *Journal of Hymenoptera Research* **31**: 97-104.

Achterberg, C. van and Haeselbarth, E. (2003) Revision of the genus *Syntretus* Foerster (Hymenoptera: Braconidae: Euphorinae) from Europe. *Zoologische Mededelingen, Leiden* **77**: 9-78.

Achterberg, C. van and O'Connor, J. P. (1990) Revision of the Palaearctic genus *Trachyusa* Ruthe (Hymenoptera: Braconidae). *Zoologische Mededelingen, Leiden* **64**: 107-112.

Achterberg, C. van and O'Toole, C. (1993) Annotated catalogue of the types of Braconidae (Hymenoptera) in the Oxford University Museum. *Zoologische Verhandelingen, Leiden* **287**: 3-48.

Achterberg, C. van and Shaw, M. R. (2016) Revision of the western Palaearctic species of *Aleiodes* Wesmael (Hymenoptera, Braconidae, Rogadinae). Part 1: Introduction, key to species groups, outlying distinctive species, and revisionary notes on some further species. *ZooKeys* **639**: 1-164. <https://doi.org/10.3897/zookeys.639.10893>

Achterberg, C. van, Shaw, M. R. and Quicke, D. L. J. (2020) Revision of the western Palaearctic species of *Aleiodes* Wesmael (Hymen., Braconidae, Rogadinae). Part 2: Revision of the *A. apicalis* group. *Zookeys* **919**: 1-259.

Allen, D., Woodrow, W., Mellon, C., Hughes, M. and Nelson, B. (2012) A selection of invertebrates closely associated with Marsh Fritillary *Euphydryas aurinia* (Rott.) habitat and Devil's-bit Scabious *Succisa pratensis* in Ireland. *Atropos* **46**: 48-55.



Alexander, K. N. A. (1994) *Miscodera arctica* (Paykull), *Notiophilus aesthuans* (Motschulsky) (Coleoptera: Carabidae) and *Pontania crassipes* (C. G. Thomson) (Hymenoptera: Tenthredinidae), insects new to Ireland from the summit of Slieve Donard, Co Down. *Ir. Nat. J.* **24**: 463-464.

—— (2002) The invertebrates of living and decaying timber in Britain and Ireland. A provisional annotated checklist. *English Nature Research Reports* **No. 467**. English Nature, Peterborough.

Alexander, K. N. A. and Orledge, G. M. (2006) *Lasius platythorax* Seifert (Hymenoptera: Formicidae) in Ireland, with notes on the distinctions between *Lasius platythorax* and *L. niger* (L.). *Ir. Nat. J.* **28**: 249-252.

Al-Saffar, Z. Y. and Aldrich, J. C. (1997) Factors influencing the survival of *Pontania proxima* that attack crack willow *Salix fragilis*. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 219-223.

—— (1998) *Pontania proxima* (Tenthredinidae: Hymenoptera): natural enemies and defensive behavior against *Pnigalio nemati* (Eulophidae: Hymenoptera). *Annals of the Entomological Society of America* **91**: 858-862.

Allen, C. W. (1933) Cinnabar Moth caterpillar's curious place of pupation. *Ir. Nat. J.* **4**: 137. (Lep., Hym.)

—— (1938) *Vespa norvegica* Fab. in a suburban garden *Ir. Nat. J.* **7**: 10.

—— (1938) (*Andrena angustior* at Kilmore). *Ir. Nat. J.* **7**: 96.

Anderson, A. and Broad, G. R. (2011) Three records of Ichneumonidae (Hymenoptera) new to Ireland. *Ir. Nat. J.* **31** (2010): 134-135.

Anderson, A., Broad, G. and Baur, H. (2006) New Irish records of Ichneumonidae, Braconidae and Pteromalidae (Hymenoptera) collected from agricultural grasslands. *Ir. Nat. J.* **28**: 246-248.

Anderson, A., Carnus, T., Helden, A. J., Sheridan, H. and Purvis, G. (2013) The influence of conservation field margins in intensively managed grazing land on communities of five arthropod trophic groups. *Insect Conservation and Diversity* **6**: 201-211.

Anderson, A., McCormack, S., Helden, A., Broad, G., Baur, H., Noyes, J. and Purvis, G. (2008) Arthropod biodiversity of agricultural grassland in south and east Ireland: Hymenoptera. *Bulletin of the Irish Biogeographical Society* **32**: 201-211.

Anderson, A., McCormack, S., Helden, A., Sheridan, H., Kinsella, A. and Purvis, G. (2011) The potential of parasitoid Hymenoptera as bioindicators of arthropod diversity in agricultural grasslands. *Journal of Applied Ecology* **48**: 382-390.

Anderson, A. and Purvis, G. (2008) The value of parasitic Hymenoptera as indicators of biological diversity. (2003-FS-CD-LS-14-M1). Strive Report. Environmental Protection Agency, Wexford.

Anderson, R. (2005) Insects on oak in Northern Ireland: *Andricus quercusramuli* (L.) (Hymenoptera: Cynipidae) and *Scymnus auritus* Thunberg (Coleoptera: Coccinellidae). *Ir. Nat. J.* **28**: 133-134.

—— (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

—— (2008) Insect and invertebrate review 2006-2007. *Ir. Nat. J.* **29**: 66-69.

—— (2008) Terrestrial invertebrates. *Biodiversity Ireland* **Issue 1**: 9-11.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland. (Symphyta & Aculeata)

Andrew, J. (1886) The British bees. *Proceedings of the Belfast Naturalists' Field Club* **2**: 449-451.

Archer, M. (2009) A key to the *Chrysis ignita* species group with *C. mediata* and *C. pseudobrevitarsis* in England, Wales, Scotland and Ireland. *BWARS Newsletter* **Autumn 2009**: 36-42.

—— (2014) The solitary wasps and bees (Hymenoptera: Aculeata) of urban and suburban gardens. *Entomologist's mon. Mag.* **150**: 169-179. (Dublin)

—— (2014) The vespoid wasps (Tiphiidae, Mutillidae, Sapygidae, Scoliidae and Vespidae) of the British Isles. *Handbooks for the Identification of British Insects* **6**(6): 82pp.

—— (2017) Update of the Chrysidoidea Working Group. *BWARS Newsletter* **Spring 2017**: 23-24.

Archer, M. and Burn, J. (2012) Distributional records of the Bethylidae, Embolemidae and Dryinidae (Hemenoptera, Aculeata) from the British Isles. *BWARS Newsletter* **Spring 2012**: 19-25.

Archer, M. E. (ed.) (1979) *Provisional atlas of the insects of the British Isles. Part 9. Hymenoptera: Vespidae Social Wasps.* Second Edition. Biological Records Centre, Huntingdon.

—— (1998) The world distribution of the Euro-Asian species of *Paravespula* (Hym., Vespinae). *Entomologist's mon. Mag.* **134**: 279-284.

—— (1999) Taxonomy and world distribution of the Euro-Asian species of *Dolichovespula* (Hym., Vespinae). *Entomologist's mon. Mag.* **135**: 153-160.

—— (2007) Current knowledge of British aculeate Hymenoptera with special reference to the occurrence of high quality species on priority habitats. *British Journal of Entomology and Natural History* **20**: 75-94.

—— (2009) The separation of specimens from the Morgan species of the *Chrysis ignita* (L.) species group with *C. mediata* Linsenmaier and *C. pseudobrevitarsis* Linsenmaier (Hym., Chrydididae). *Entomologist's mon. Mag.* **145**: 111-123.

Arroyo, J., O'Grady, A., Vance, H. and Bolger, T. (2015) The mite (Acari: Oribatida, Mesostigmata) assemblages associated with *Lasius flavus* (Hymenoptera: Formicidae) nests and surrounding soil in an Irish grassland. *Biology and Environment: Proceedings of the Royal Irish Academy* **115**B: 17-28.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Askew, R. R. (1959) A revision of the British species of the Genus *Olynx* Forster (Hym., Eulophidae). *Entomologist's mon. Mag.* **9**5: 49-57.

—— (1968) Hymenoptera 2. Chalcidoidea Section (b). *Handbooks for the Identification of British Insects* **8**(2b): 1-39.

—— (2011) European *Stinoplus* Thomson, 1878 (Hym., Pteromalidae), with descriptions of four new species. *Entomologist's mon. Mag.* **147**: 3-18. (*S. etearchus*)

Askew, R. R. and Godfray, H. C. J. (1987) *Dicladocerus euryalus* (Haliday) (Hymenoptera: Eulophidae): synonymy and biology. *Entomologist's Gazette* **38**: 203-204.

—— (2013) British records of species of *Epiclerus* Haliday, 1843 (Hymenoptera: Tetracampidae). *Entomologist's mon. Mag.* **149**: 263-266. (*E. temenus*, Dublin)

Aydoğdu, M. and Beyarslan, A. (2002) *Chelonus* Jurine (Hymenoptera: Braconidae: Cheloninae) species of the Marmara Region. *Turkish Journal of Zoology* **26**: 1-13. (*C. inanitus*)

—— (2011) Additional notes on *Chelonus* Panzer, 1806 fauna of Turkey with new records (Hymenoptera, Braconidae, Cheloninae). *The Journal of the Entomological Research Society* **13**: 75-81. (*C. inanitus*)

Azidah, A. A., Fitton, M. G. and Quicke, D. L. J. (2000) Identification of the *Diadegma* species (Hymenoptera: Ichneumonidae, Campopleginae) attacking the diamondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae). *Bulletin of Entomological Research* **90**: 375-389. (*D. fenestrale*, *D. semiclausum*)

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10.

Baker, D. B. (1996) On a collection of *Bombus* and *Psithyrus* principally from Sutherland, with notes on the nomenclature or status of three species (Hymenoptera, Apoidea). *British Journal of Entomology and Natural History* **9**: 7-19. (*B. laevis allenellus* Stelfox)

Baker, E. A. and Broad, G. R. (2013) Eight aphid parasitoids (Hymenoptera: Braconidae: Aphidiinae) new to Britain. *British Journal of Entomology and Natural History* **26**: 187-197.

Baquero, E. and Jordana, R. (2002) Contribution to the knowledge of the family Mymaridae Haliday (Hymenoptera: Chalcidoidea) in Navarra, north of the Iberian peninsula. *Boletín de la Asociación española de Entomología* **26**: 75-91. (*Eustochus atripennis*)

Barnett, G. (1931) Bee study in the meadows. *Ir. Nat. J.* **3**: 257-258.

—— (1932) Bees follow nest. *Ir. Nat. J.* **4**: 119.

Baroni Urbani, C. and Collingwood, C. A. (1976) A numerical analysis of the distribution of British Formicidae (Hymenoptera, Aculeata). *Verhandlungen der Naturforschenden Gesellschaft in Basel* **85**: 51-91.

—— (1977) The zoogeography of ants (Hymenoptera, Formicidae) in Northern Europe. *Acta Zoologica Fennica* **152**: 1-34.

Barratt, B. I., Murney, R., Easingwood, R. and Ward, V. K. (2006) Virus-like particles in the ovaries of *Microctonus aethiopoides* Loan (Hymenoptera: Braconidae): comparison of biotypes from Morocco and Europe. *Journal of Invertebrate Pathology* **91**: 13-18.

Barrett, K. E. J. (1965) Ant records and observations for 1965. *Entomologist's Rec. J. Var.* **77**: 248-252.

—— (1974) Distribution maps scheme for ants in Britain. *Entomologist's Gazette* **25**: 212-216.

—— (ed.) (1979) *Provisional atlas of the insects of the British Isles. Part 5. Hymenoptera: Formicidae Ants.* Second Edition. Biological Records Centre, Huntingdon.

Barrington, R. M. (1896) Wasps catching flies on cattle. *Ir. Nat.* **5**: 272.

Barrington, R. M. (1897) Battle between wasp and spider. *Ir. Nat.* **6**: 325.
—— (1897) Scarcity of wasps at Bray. *Ir. Nat.* **6**: 251.
—— (1901) Late wasps' nests. *Ir. Nat.* **9**: 108.
—— (1907) Scarcity of wasps. *Ir. Nat.* **16**: 323.
Barrington, R. M. and Moffat, C. B. (1901) Wasps in County Wicklow. *Ir. Nat.* **10**: 197-20l.
Battersby, F. J. (1868) *Chortobius davus* and monster *Ichneumon* in Co. Westmeath. *Entomologist* **4**: 101.
—— (1903) *Sirex gigas* in Ireland. *Entomologist* **36**: 268.
Baynes, E. S. A. (1952) Insect migration. *Ir. Nat. J.* **10**: 301-302.
Bees, Wasps, and Ants Recording Society (2020) Bee Records for Ireland (BWARS), National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/267>
Beirne, B. P. (1941) British species of Diplazonini (Bassini Auctt.) with a study of the genital and postgenital abdominal sclerites in the male (Hym., Ichneum.). *Tranactions of the Royal Entomological Society of London* **91**: 661-712.
—— (1941) A consideration of the cephalic structures and spiracles of the final instar larvae of the Ichneumonidae (Hym.). *Transactions of the Society of British Entomology* **7**: 123-190.
—— (1942) Observations on the developmental stages of some Aphidiinae, (Hym., Braconidae). *Entomologist's mon. Mag.* **78**: 283-286, 4 figs.
—— (1942) Observations on the life-history of *Praon volucre* Haliday (Hym., Braconidae) a parasite of the mealy plum aphis (*Hyalopterus arundinis* Fab.). *Proceedings of the Royal Entomological Society of London* **17**: 42-47.
—— (1944) The abundance of wasps, (Hym., Vespidae). *Entomologist's mon. Mag.* **80**: 272.
—— (1945) *Acoelius pyrrhia* sp.n. and *Myiocephalus boops* Wesmael. (Hym., Braconidae) from Ireland. *Entomologist's mon. Mag.* **81**: 106-108, 5 figs.
—— (1946) Notes on the biology of some hymenopterous parasites of the Beech Weevil (*Rhynchaenus fagi* L.) (Col.). *Proceedings of the Royal Entomological Society of London A* **21**: 7-11.
Benson, R. B. (1931) Notes on the habits and occurrences of *Athalia* species in Britain. *Entomologist's mon. Mag.* **67**: 134-137.
—— (1938) A revision of the British sawflies of the genus *Empria* Lepeletier (Hymenoptera, Symphyta). *Transactions of the Society of British Entomology* **5**: 181-198.
—— (1940) Sawflies (Hym., Symphyta) in Teesdale: June, 1939. *Entomologist's mon. Mag.* **76**: 36-37. (several Irish records)
—— (1943) The green British species of *Tenthredo* (Hymenoptera Symphyta). *Entomologist* **76**: 133-144.
—— (1943) British *Sciapterx costalis* F. belong to the Atlantic sub-species *soror* Konow (Hym., Symphyta). *Entomologist's mon. Mag.* **79**: 138.
—— (1948) Some further British species of *Amauronematus* Konow (Hym., Tenthredinidae). *Entomologist's mon. Mag.* **84**: 28-32.
—— (1948) British sawflies of the Genus *Pachynematus* Konow (Hym., Tenthredinidae). *Entomologist's mon. Mag.* **84**: 58-65.

Benson, R. B. (1950) An introduction to the natural history of British sawflies (Hymenoptera Symphyta). *Transactions of the Society of British Entomology* **10**: 45-142.

—— (1951) Hymenoptera 2. Symphyta. Section (a). *Handbooks for the Identification of British Insects* **6**(2a): 1-49.

—— (1952) Hymenoptera 2. Symphyta. Section (b). *Handbooks for the Identification of British Insects* **6**(2b): 51-137.

—— (1953) Some changes and additions to the list of British sawflies with the descriptions of two new species (Hym., Tenthredinidae). *Entomologist's mon. Mag.* **89**: 150-154.

—— (1953) The sawfly *Tenthredo temula* of British authors is an undescribed species (Hym., Tenthredinidae). *Entomologist's mon. Mag.* **89**: 275-277.

—— (1954) British sawfly galls of the Genus *Nematus* (*Pontania*) on *Salix.* (Hymenoptera, Tenthredinidae). *Journal of the Society for British Entomology* **4**: 206-211.

—— (1956) Sawflies (Hym., Symphyta) at Malham Tarn. *Entomologist's mon. Mag.* **92**: 166.

—— (1958) Hymenoptera 2. Symphyta. Section (c). *Handbooks for the Identification of British Insects* **6**(2c): 139-252, i-vi.

—— (1966) *Dolerus triplicatus steini* and other British sawflies belonging to Atlantic/Continental pairs (Hymenoptera Symphyta). *Entomologist's Gazette* **17**: 27-30.

Benson, R. B., Blair, K. G. and Donisthorpe, H. (1940) Some recent discoveries in the British insect fauna. *Entomologist's mon. Mag.* **76**: 272-273, plate vi. (*Arge metallica* Klug)

Bernasconi, C., Pamilo, P. and Cherix, D. (2010) Molecular markers allow sibling species identification in red wood ants (*Formica rufa* group). *Systematic Entomology* **35**: 243-249.

Beyarslan, A., Aydogdu, M. and Inanc, F. (2004) A survey of *Meteorus* Haliday, 1835 of Turkey (Hymenoptera, Braconidae, Euphorinae). *Entomofauna* **25**: 1-20.

Blacker, N. C. (2007) Ants (Hym., Formicidae) in East Anglia - additional records from 2005. *Entomologist's mon. Mag.* **143**: 69-89. (maps with records for *Formica fusca* and *F. lemani*)

Blackith, R. and Blackith R. (1978) A new host for *Perilitus coccinellae* (Hymenoptera: Braconidae). *Ir. Nat. J.* **19**: 164-165.

—— (1986) *Pygostolus sticticus* Fab. (Hymenoptera: Braconidae) parasitic on *Otiorhynchus singularis* (L.) (Coleoptera: Curculionidae) in an Irish pine forest. *Ir. Nat. J.* **22**: 69-71.

Blackith, R. E. (1973) A parasite of ladybirds in Ireland. *Ir. Nat. J.* **17**: 420-421.

—— (1983) A mermithid parasite of wasps in Ireland. *Ir. Nat. J.* **21**: 96. (*Agamomermis pachysoma*)

Blackith, R. E. and Blackith, R. M. (1990) Insect infestations of small corpses. *Journal of Natural History* **24**: 699-709. (Dipt., Hym., Lep.)

Blank, S. M., Taeger, A., Liston, A. D., Smith, D. R., Rasnitsyn, A. P., Shinohara, A., Heidemaa, M. and Viitasaari, M. (2009) Studies toward a world catalog of Symphyta (Hymenoptera). *Zootaxa* **2254**: 1-96.

Bolton, B. and Collingwood, C. A. (1975) Hymenoptera Family Formicidae. *Handbooks for the Identification of British Insects* **6**(3c): 1-34.

Bonaparte-Wyse, L. H. (1901) *Sirex gigas*, L., in Co. Down. *Ir. Nat.* **10**: 203.

Bond, K. G. M., Shaw, M. R. and O'Connor, J. P. (2005) Records of reared chalcidoid and braconid (Hymenoptera) parasitoids from Ireland. *Ir. Nat. J.* **28**: 134-135.

Boots, B., Keith, A. M., Niechoj, R., Breen, J., Schmidt, O. and Clipson, N. (2012) Unique soil microbial assemblages associated with grassland ant species with different nesting and foraging strategies. *Pedobiologia* **55**: 33-40

Boston, M. (1985) First record of *Amblyjoppa proteus* (Christ) (Hymenoptera: Ichneumonidae) in Ireland. *Ir. Nat. J.* **21**: 507.

—— (1985) First record of *Opheltes glaucopterus* (L.) (Hymenoptera: Ichneumonidae) in Ireland. *Ir. Nat. J.* **21**: 507.

—— (1986) *Euceros serricornis* (Haliday) (Hymenoptera: Ichneumonidae) in Ireland. *Ir. Nat. J.* **22**: 116.

—— (1986) First Irish record of *Neorhacodes enslini* (Ruschka) (Hymenoptera: Ichneumonidae). *Ir. Nat. J.* **22**: 116.

Boston, M. R. and Nash, R. (1989) Twenty-one species of Hymenoptera (Ichneumonidae: Ichneumoninae) new to Ireland, with a list of ichneumonine species in the Ulster Museum, Belfast. *Ir. Nat. J.* **23**: 134-137.

Bouček, Z. (1970) On some British *Megastigmus* (Hymenoptera: Torymidae), with a revised key to the West European species. *Entomologist's Gazette* **21**: 265-275.

—— (1972) On European Pteromalidae (Hymenoptera): a revision of *Cleonymus*, *Eunotus* and *Spaniopus*, with descriptions of new genera and species. *Bulletin of the British Museum of Natural History* (Entomology) **27**: 265-315.

Bouček, Z., Graham, M. W. R. de V. and Kerrich, G. J. (1963) A revision of the European species of the genus *Mestocharis* Forster (Hym., Chalcidoidea, Eulophidae). *Entomologist* **96**: 4-9.

Bourke, D., Stanley, D., O'Rourke, E., Thompson, R., Carnus, T., Dauber, J., Emmerson, M., Whelan, P., Hecq, F., Flynn, E., Dolan, L. and Stout, J. (2014) Response of farmland biodiversity to the introduction of bioenergy crops: effects of local factors and surrounding landscape context. *GCB Bioenergy* **6**: 275-289. (Col., Dipt,, Hym.)

Bowdrey, J. (2008) *Blasticotoma filiceti* Klug, 1834 (Sym.: Blasticotomidae): a sawfly new to Ireland. *Entomologist's Rec. J. Var.* **120**: 123-124.

Box, J. A. (1919) (Exhibited *Syntomaspis cyanea*). *Proceedings of the South London Entomological and Natural History Society* **1919**: 50.

Breen, J. (1977) Patterns of distribution of *Formica lugubris* Zett. Nests in Irish plantation woods. Pp 156-157. *In Proceedings of the 8th International Congress International Union for the Study of Social Insects*. Wageningen, The Netherlands.

—— (1977) The distribution of *Formica lugubris* Zetterstedt (Hymenoptera: Formicidae) in Ireland, with a discussion of its possible introduction. *Ir. Nat. J.* **19**: 123-127.

—— (1977) Inter-nest battles of *Formica lugubris* Zetterstedt (Hymenoptera: Formicidae) in Ireland. *Entomologist's Rec. J. Var.* **89**: 296-298.

—— (1978) Diurnal and seasonal foraging of *Formica lugubris* in Irish plantation woods. P. 13. *In First European Congress of Entomology*, Reading, U.K. Commonwealth Agricultural Bureau Abstracts.

—— (1979) Worker populations of *Formica lugubris* Zett. nests in Irish plantation woods. *Ecological Entomology* **4**: 1-7.

Breen, J. (1979) Aphids visited by *Formica lugubris* (Hymenoptera: Formicidae) including eleven species new to Ireland. *Ir. Nat. J.* **19**: 349-352.

—— (1979) Nest sites of *Formica lugubris* (Hymenoptera, Formicidae) in Irish plantation woods. *Journal of Life Sciences of the Royal Dublin Society* **1**: 13-32.

—— (1979) Flights of the wood ant *Formica lugubris* (Hym., Formicidae) in Ireland. *Entomologist's Rec. J. Var.* **91**: 10-12.

—— (1982) The foraging dynamics of the wood ant *Formica lugubris* in Ireland. *Proceedings of the IX International Congress. International Union for the Study of Social Insects.* Boulder, Colorado.

—— (1983) Ants, bees and wasps: Order Hymenoptera, Sub-order Aculeata. Pp 180-183, 507-508. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

—— (2014) Species dossier, range and distribution data for the Hairy Wood Ant, *Formica lugubris*, in Ireland. *Irish Wildlife Manuals* **No. 68**. National Parks and Wildlife Service, Department of the Arts, Heritage and the Gaeltacht, Ireland.

Breen, J. and O'Brien, A. (1990) *Tetramorium caespitum* in an Irish dune: spatial distribution and ordination of sites. Pp 219-220. *In* Veeresh, G. K., Mallik, B., and Viraktamath, C. A. (eds) *Social insects and the environment. Proceedings 11th International Congress. International Union for the study of social insects.* Bangalore, India.

—— (1990) Myrmecochory by *Tetramorium caespitum* in Ireland. P. 91. *In* Veeresh, G. K., Mallik, B., and Viraktamath, C. A. (eds) *Social insects and the environment. Proceedings 11th International Congress. International Union for the study of social insects.* Bangalore, India.

—— (1994) Ecology of *Lasius flavus* mounds in limestone grassland in Ireland: spatial distribution, soil modification and nest vegetation. P. 386. *In* Lenoir, A. *et al.* (eds) *Les insectes sociaux: 12th Congress of the International Union for the study of social insects. University of Sorbonne, Paris.*

—— (1994) *Lasius flavus* ant hill vegetation in Ireland. Pp 22-23. *In Proceedings of Winter and Annual General Meeting of the British Ecological Society.* University of Birmingham, Birmingham.

—— (1995) Species richness in oldfield limestone grassland. Pp 204-209. *In* Jeffrey, D. W., Jones, M. B. and McAdam, J. H. (eds) *Irish grasslands - their biology and management.* Royal Irish Academy, Dublin. (*Lasius flavus* Fabr.)

Brenan, S. A. (1893) Wasps in Co. Antrim. *Ir. Nat.* **2**: 252.

—— (1893) *Sirex gigas* and *Acherontia atropos* in Co. Antrim. *Ir. Nat.* **2**: 252. (correction in *Ir. Nat.* **2**: 277)

Brinklow, R. K. and Nash, R. (1975) Feral honey bees in Co. Clare. *Ir. Nat. J.* **18**: 229.

Broad, G. (2016) Checklist of British and Irish Hymenoptera - Ichneumonidae. *Biodiversity Data Journal* **4**: e9042. doi: 10.3897/BDJ.4.e9042

—— (2016) Checklist of British and Irish Hymenoptera - Proctotrupoidea. *Biodiversity Data Journal* **4**: e7936. doi: 10.3897/BDJ.4.e7936

Broad G. and Livermore, L. (2014) Checklist of British and Irish Hymenoptera - Ceraphronoidea. *Biodiversity Data Journal* **2**: e1167. doi: 10.3897/BDJ.2.e1167

Broad G. and Livermore, L. (2014) Checklist of British and Irish Hymenoptera - Evanioidea. *Biodiversity DataJournal* **2**: e1116. doi: 10.3897/BDJ.2.e1116

Broad, G., Shaw, M. and Godfray, H. (2016) Checklist of British and Irish Hymenoptera - Braconidae. *Biodiversity Data Journal* **4**: e8151. doi: 10.3897/BDJ.4.e8151

Broad, G. R. (2010) Check list of British and Irish Evanioidea (Hymenoptera). <http://www.nhm.ac.uk/resources-rx/files/superfamily-evanioidea-73400. pdf>. (I = Ireland)

—— (2010) Check list of British and Irish Ichneumonidae (Hymenoptera). <http://www.nhm.ac.uk/resources-rx/files/ichneumonidae-checklist-forweb-7752.pdf>. (I = Ireland)

—— (2011) Check list of British and Irish Ceraphronoidea. <http://www.nhm.ac.uk/resources-rx/files/superfamily-ceraphronoidea-27753. pdf>. (I = Ireland)

Broad, G. R. and O'Connor, J. P. (2016) Sixteen species of Ichneumonidae (Hymenoptera) new to Ireland with records of some other rarely recorded species. *Ir. Nat. J.* **35**: 12-16.

Broad, G. R., Schnee, H. and Shaw, M. R. (2015) The hosts of *Ophion luteus* (Linnaeus) (Hymenoptera, Ichneumonidae, Ophioninae) in Europe. *Journal of Hymenoptera Research* **46**: 115-125.

Broad G. R. and Shaw M. R. (2016) The British species of *Enicospilus* (Hymenoptera: Ichneumonidae: Ophioninae). *European Journal of Taxonomy* **187**: 1-31. <http://dx.doi.org/10.5852/ejt.2016.187>

Broad, G. R., Shaw, M. R. and Fitton, M. G. (2018) Ichneumonid Wasps (Hymenoptera: Ichneumonidae) their Classification and Biology. *Handbooks for the Identification of British Insects* **7**(12): 418pp.

Broad, G. R., Shaw, M. R. and Godfray, H. C. J. (2011) Check list of British and Irish Braconidae (Hymenoptera). <http://www.nhm.ac.uk/resources-rx/files/ braconidae-checklist-final-34139. pdf>. (I = Ireland)

Brock, J. P. (2017) The Banchine Wasps (Ichneumonidae: Banchinae) of the British Isles. *Handbooks for the Identification of British Insects* **7**(4): 150pp.

Brown, M. (2009) Conserving Irish bees. *Biodiversity Ireland* **Issue 4**: 15.

Brunker, J. P. (1932) Building instinct in *Vespa sylvestris* L. *Ir. Nat. J.* **4**: 98.

Bryan, G. (1980) The British species of *Achrysocharoides* (Hymenoptera, Eulophidae). *Systematic Entomology* **5**: 245-262.

Buckle, C. W. (1899) *Vespa austriaca* in Derry and Donegal. *Ir. Nat.* **8**: 163-164. (& spp)

Buhl, P., Broad, G. and Notton, D. (2016) Checklist of British and Irish HymenopteraPlatygastroidea. *Biodiversity Data Journal* **4**: e7991. doi: 10.3897/ BDJ.4.e7991

Buhl, P. N. (2009) Six new species of Platygastrinae from the British Isles (Hymenoptera, Platygastridae). *Journal of Natural History* **43**: 687-699. (*Synopeas noyesi* sp. nov.)

—— (2010) New or little known species of Platygastridae from Northern Europe (Hymenoptera: Platygastridae). *Latvijas Entomologs* **48**: 33-49. (species near *Synopeas hibernicum*)

Buhl, P. N. and Bennett, F. D. (2009) Records of Platygastridae (Hym.: Platygastroidea) from the Isle of Man, with descriptions of three new species. *Entomologist's Rec. J. Var.* **121**: 89-99.

Buhl, P. N. and Notton, D. G. (2009) A revised catalogue of the Platygastridae of the British Isles (Hymenoptera: Platygastroidea). *Journal of Natural History* **43**: 1651-1703.

Buhl, P. N. and O'Connor, J. P. (2008) Records of Irish Platygastridae (Hymenoptera) including seventeen species new to Ireland. *Ir. Nat. J.* **29**: 27-29.

—— (2009) Six species of Platygastrinae (Hym., Platygastridae) new to Ireland. *Entomologist's mon. Mag.* **145**: 164.

—— (2009) 23 species of Platygastrinae (Hymenoptera, Platygastridae) new to Ireland, including *Platygaster hibernica* sp. nov. and *Synopeas hibernicum* sp. nov. *Ir. Nat. J.* **29** (2008): 111-115. Corrigendum (figure 4): *Ir. Nat. J.* **30**: 78.

—— (2010) Eleven species of Platygastrinae (Hym., Platygastridae) new to Ireland, and descriptions of the hitherto unknown males of three species. *Entomologist's mon. Mag.* **146**: 33-35.

—— (2010) Distributional records of Irish Platygastridae with corrections and additions to the Irish list. *Bulletin of the Irish Biogeographical Society* **34**: 3-17.

—— (2011) Nine species of Ceraphronidae (Hymenoptera: Ceraphronoidea) new to Ireland. *Ir. Nat. J.* **31** (2010): 126-127.

—— (2011) A new species of *Platygaster* (Hym., Platygastridae) from Ireland. *Entomologist's mon. Mag.* **147**: 77-80.

—— (2011) Four species of Platygastrinae (Hym., Platygastridae) new to Ireland. *Entomologist's mon. Mag.* **147**: 116.

—— (2011) Five species of Ceraphronidae and Scelionidae (Hymenoptera) new to Ireland. *Entomologist's mon. Mag.* **146** (2010): 154.

—— (2011) A new species of *Synopeas* (Hym., Platygastridae) from Ireland. *Entomologist's mon. Mag.* **146** (2010): 195-198.

—— (2012) Two new species of Platygastroidea (Hymenoptera) from Ireland. *Entomologist's Rec. J. Var.* **124**: 195-200.

—— (2012) A further four species of Platygastrinae (Hym., Platygastridae) new to Ireland. *Entomologist's mon. Mag.* **148**: 146.

—— (2012) Distributional records of Irish Platygastroidea: Platygastrinae and Ceraphronoidea: Ceraphronidae including *Aphanogmus elegantulus* new to Ireland. *Bulletin of the Irish Biogeographical Society* **36**: 15-23.

—— (2013) Notes on Irish Platygastridae (Hymenoptera) including two species new to Ireland. *Entomologist's mon. Mag.* **149**: 67-68.

Buhl, P. N., O'Connor, J. P. and Ashe, P. (2010) A new reared species of *Aphanogmus* (Hym., Ceraphronidae) from Ireland. *Entomologist's mon. Mag.* **146**: 53-55.

Burbridge, F. W. (1901) (Notes on Humble Bees). *Ir. Nat.* **10**: 204.

Butler, E. A. (1921) On *Nabis lativentris* Boh. (Hemiptera-Heteroptera). *Entomologist's mon. Mag.* **57**: 79-81. (Hem., Hym.)

Byrne, A. and Fitzpatrick, Ú. (2009) Bee conservation policy at the global, regional and national levels. *Apidologie* **40**: 194-210.

Cameron, P. (1878) Descriptions of two new British species of *Nematus*. *Entomologist's mon. Mag.* **14**: 225-226.

—— (1882-1892) *A monograph of the British phytophagous Hymenoptera*. 4 volumes. Ray Society Series **No. 59**. Printed for the Ray Society, London.

Carlsson, J., Cross, T., McGinnity, P., Prodohl, P. and McDevitt, A. (2014) The use of genetics to infer the origins of the terrestrial and freshwater elements of the Irish fauna. Pp 8-27. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Hym.: *Formica lugubris*)

Caron, V., Norgate, M., Ede, F. J., Nyman, T. and Sunnucks, P. (2013) Novel microsatellite DNA markers indicate strict parthenogenesis and few genotypes in the invasive willow sawfly *Nematus oligospilus*. *Bulletin of Entomological Research* **103**: 74-88.

Carpenter, G. H. (1893) *Vespa arborea*, Sm., in Ireland. *Entomologist's mon. Mag.* **29**: 166.

—— (1893) Irish wasps - *Vespa arborea*, Sm. at Bray. *Ir. Nat.* **2**: 199.

—— (1894) Wasps at Bray. *Ir. Nat.* **3**: 157.

—— (1894) *Vespa arborea*, Sm. in Co. Dublin. *Ir. Nat.* **3**: 202.

—— (1894) *Cimbex femorata*, Linn. in Co. Dublin. *Ir. Nat.* **3**: 223.

—— (1894) *Cimbex connata*, Schr., on Valentia. *Ir. Nat.* **3**: 176.

Carpenter, G. H. and Pack-Beresford, D. R. (1903) The relationship of *Vespa austriaca* to *Vespa rufa*. *Entomologist's mon. Mag.* **39**: 230-242 and *Ir. Nat.* **12**: 221-238, 1 plate, 2 figs.

Carroll, E., Sparks, T., Donnelly, A. and Cooney, T. (2009) Irish phenological observations from the early 20th century reveal a strong response to temperature. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 115-126.

Casey, L. M., Rebelo, H., Rotheray, E. and Goulson, D. (2015) Evidence for habitat and climatic specializations driving the long-term distribution trends of UK and Irish bumblebees. *Diversity and Distributions* **21**: 864-875.

Cawley, M. (2008) Distribution records for uncommon ants including *Stenamma debile* (Foerster) (Hymenoptera: Formicidae) new to Ireland. *Bulletin of the Irish Biogeographical Society* **32**: 84-89.

Chambre, N. (1932) Wasps active in November. *Ir. Nat. J.* **4**: 24.

Chauzat, M.-P., Purvis, G. and Dunne, R. (2001) A foreigner in Ireland. *Biologist* **48**: 133. (*Psyllaephagus pilosus*)

—— (2002) Release and establishment of a biological control agent, *Psyllaephagus pilosus*, for eucalyptus psyllid (*Cenarytaina eucalypti*) in Ireland. *Annals of Applied Biology* **141**: 293-304.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Chitty, A. J. (1907) Notes on the Genus *Gonatopus* (Dryininae). *Entomologist's Rec. J. Var.* **19**: 79-82.

—— (1908) On the proctotrypid Genus *Anteon*, with descriptions of new species and a table of those occurring in Britain. *Entomologist's mon. Mag.* **44**: 141-146.

Claridge, M. F. (1958) *Opius caelatus* Hal. (Hym., Braconidae) and *Lamprotatus splendens* Westw. (Hym., Pteromalidae) parasites of *Pegomyia nigritarsis* (Zett) (Dipt., Anthomyiidae). *Entomologist's mon. Mag.* **94**: 227.

Claridge, M. F. (1959) Notes on the Genus *Systole* Walker, including a previously undescribed species (Hym., Eurytomidae). *Entomologist's mon. Mag.* **95**: 38-43.

Cockerell, T. D. A. (1929) Geographical variation in bees of the Genus *Megachile*. *Entomologist's Rec. J. Var.* **41**: 133-134.

Coffey, M., Barth, S., Hayes, K. and Breen, J. (2013) The health status of Irish honeybee colonies in 2006. *Irish Journal of Agricultural and Food Research* **52**: 39-51.

Coffey, M. F. and Breen, J. (1994) The floral sources of Irish honeys using melissopalynology. P. 73. *In Proceedings of Winter and Annual General Meeting of the British Ecological Society.* University of Birmingham, Birmingham.

Coffey, M. F., Breen, J., Brown, M. J. F. and McMullan, J. B. (2010) Brood-cell size has no influence on the population dynamics of *Varroa destructor* mites in the native western honey bee, *Apis mellifera mellifera*. *Apidologie* **41**: 522-530.

Collingwood, C. (2012) The Formicidae of North Europe. *Entomologist's mon. Mag.* **148**: 1-13.

Collingwood, C. A. (1956) Distribution of ants allied to *Formica fusca* L. and *F. rufa* L. in Britain. *Entomologist* **89**: 291-294.

—— (1957) The species of ants of the Genus *Lasius* in Britain. *Journal of the Society for British Entomology* **5**: 204-214.

—— (1957) A collection of ants (Hym. Formicidae) in the Leicester City Museum. *Entomologist's Rec. J. Var.* **69**: 167-170, 183-187.

—— (1958) A survey of Irish Formicidae. *Proceedings of the Royal Irish Academy* **59**B: 213-219.

—— (1958) The ants of the Genus *Myrmica* in Britain. *Proceedings of the Royal Entomological Society of London A*·**33**: 65-75.

—— (1958) A key to the species of ants (Hymenoptera, Formicidae) found in Britain. *Transactions of the Society of British Entomology* **13**: 69-96.

—— (1961) New vice-county records for British ants. *Entomologist's Rec. J. Var.* **73**: 90-93.

—— (1962) New records for British ants, 1961-1962. *Entomologist's Rec. J. Var.* **74**: 234-236.

—— (1963) The *Lasius* (*Chthonolasius*) *umbratus* (Hym., Formicidae) species complex in North Europe. *Entomologist* **96**: 145-158.

—— (1964) The identification and distribution of British ants (Hymenoptera, Formicidae) 1. A revised key to the species found in Britain. *Transactions of the Society of British Entomology* **16**: 93-121.

—— (1966) Notes on British Ants, 1964-1965. *Entomologist's Rec. J. Var.* **78**: 23-25.

—— (1971) A synopsis of the Formicidae of North Europe. *Entomologist* **104**: 150-176.

Collingwood, C. A. and Barrett, K. E. J. (1966) Additions to the vicecounty distribution of British ants, 1966. *Entomologist* **99**: 254-256.

Collins, G. A. (ed.) (2008) Species profiles. *BWARS Newsletter* **Autumn 2008**: 33-56. (*Stenamma debile*, *Trypoxylon clavicerum*, *Pemphredon lugubris*, *Sphecodes pellucidus*, *Nomada marshamella*)

—— (ed.) (2009) Species profiles. *BWARS Newsletter* **Spring 2009**: 22-42. (*Priocnemis exaltata*, *Andrena ovatula* (main text states that there are no Irish records but one is shown on the relevant map), *A. wilkella*, *Nomada panzeri*)

Collins, G. A. (ed.) (2009) Species profiles. *BWARS Newsletter* **Autumn 2009**: 48-52. (*Anteon fulviventre*, *A. jurineanum*, *A. pubicorne*)

—— (ed.) (2010) Species profiles. *BWARS Newsletter* **Spring 2010**: 37-60. (*Anteon ephippiger*, *A. gaullei*, *A. infectum*, *Lasius niger*, *L. platythorax*, *Priocnemis confusor*, *Spilomena curruca*, *Andrena angustior*, *A. barbilabris*, *Lasioglossum albipes*, *L. calceatum*)

—— (ed.) (2010) Species profiles. *BWARS Newsletter* **Autumn 2010**: 37-60. (*Myrmica rubra*, *Lasius umbratus*, *Andrena haemorrhoa*, *A. subopaca*, *Sphecodes ferruginatus*, *Nomada ruficornis*, *Anteon ephippiger* and a comment on *Priocnemis hyalinata*)

—— (ed.) (2010) Species profiles. *BWARS Newsletter* **Spring 2011**: 54-76. (*Lasius alienus sensu lato*, *Andrena semilaevis*, *Sphecodes monilicornis*, *Nomada flavoguttata*, *N. goodeniana*)

—— (2012) Species profiles. *BWARS Newsletter* **Spring 2012**: 42-52. (*Hypoponera punctatissima*; *M. ruginodis*; *Crossocerus capitosus*; *C. cetratus*; *Hylaeus confusus*; *H. hyalinatus*; *Sphecodes hyalinatus*)

—— (2012) Species profiles. *BWARS Newsletter* **Autumn 2012**: 47-76. (*Myrmica sabuleti*; *Andrena carantonica*; *Nomada flava*)

—— (2013) Species profiles. *BWARS Newsletter* **Spring 2013**: 65-84. (*Myrmica scabrinodis*; *Sphecodes geoffrellus*)

Collins, G. A. and Roy, H. E. (2012) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland Part 8.* Biological Records Centre, Wallingford.

—— (2016) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland Part 9.* Biological Records Centre, Wallingford.

—— (2019) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland Part 10.* Biological Records Centre, Wallingford. (completes this atlas series)

Copeland, R. B., Dowley, L. J. and Moore, J. F. (1993) The vulnerability of the Irish potato industry to harmful organisms. Pp 95-106. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Correction (to Cuthbert, H. G. (1893) *Ir. Nat*. **2**: 173) (*Ammophila sabulosa* actually *Pompilius fuscus*). *Ir. Nat.* **2**: 277.

Coruh, S., Özbek, H. and Kolarov, J. (2002) New and rare taxa of Ichneumonidae (Hymenoptera) from Turkey. *The Journal of the Entomological Research Society* **4**: 1-4. (*Colloceria melancholica*)

Cotton, D. (2020) Bee Records from Don Cotton, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/265>

Cotton, R. F. and Cotton, D. C. F. (1999) Some records of social wasps (Hymenoptera: Vespidae) from north-west Ireland. *Bulletin of the Irish Biogeographical Society* **23**: 98-100.

Crane, E. (1970) Bumble Bee distribution map scheme. *Ir. Nat. J.* **16**: 356.

Crory, A. and Anderson, R. (2013) Site Guide: Murlough Nature Reserve, Co. Down, Northern Ireland. *Atropos* **50**: 17-25.

Crosskey, R. W. (1951) The morphology, taxonomy and biology of the British Evanioidea (Hymenoptera). *Transactions of the Royal Entomological Society of London* **102**: 247-301.

Cummins, S. and O'Halloran, J. (2002) An assessment of the diet of nestling stonechats *Saxicola torquata* using compositional analysis. *Bird Study* **49**: 139-145.

Curry, J. P. (1987) Soil invertebrates as monitors of the effects of slurry and pesticide application. Pp 123-136. *In* Richardson, D. H. S. (ed.) *Biological indicators of pollution.* Royal Irish Academy, Dublin.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London.

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London.

Cuthbert, H. G. (1893) (Hymenoptera from Friarstown Glen). *Ir. Nat.* **2**: 173. (correction *Ir. Nat.* **2**: 277. *Ammophila sabulosa* was a female *Pompilius fuscus*)

—— (1893) (Hymenoptera from Skerries). *Ir. Nat.* **2**: 197.

—— (1894) Hymenoptera of Courtown, Co. Wexford. *Ir. Nat.* **3**: 243.

—— (1894) Hymenoptera in Co. Dublin. *Ir. Nat.* **3**: 67.

Cuthbert, H. K. G. (1894) The Hymenoptera-Aculeata of Courtown, Co. Wexford. *Ir. Nat.* **3**: 18-20.

—— (1894) *Vespa arborea* (*austriaca*) - further records. *Ir. Nat.* **3**: 223.

—— (1895) With the wild bees in Glencullen. *Ir. Nat.* **4**: 60-64.

—— (1895) Insects from Rosscarberry, Co Cork. *Ir. Nat.* **4**: 303-305. (correction)

—— (1895) Co. Dublin Hymenoptera, captures in 1894. *Ir. Nat.* **4**: 104.

—— (1896) (Hymenoptera from Lambay I.). *Ir. Nat.* **5**: 186.

—— (1897) Abundance of *Vespa austriaca*, Panz. *Ir. Nat.* **6**: 251.

—— (1897) Autumn scarcity of wasps. *Ir. Nat.* **6**: 282.

—— (1897) A mysterious Irish wasp, *Vespa austriaca*, Panz (*arborea*, Smith). *Ir. Nat.* **6**: 285-287, 1 plate.

—— (1898) Irish Field Club Union. Kenmare Conference. Hymenoptera. *Ir. Nat.* **7**: 208-209, 1 plate.

—— (1898) (A plague of ants). *Ir. Nat.* **7**: 254.

—— (1898) Wasp and bee hunting. *Ir. Nat.* **7**: 104-105.

—— (1899) *Vespa rufa* in Co. Clare. *Ir. Nat.* **8**: 163.

—— (1902) *Bombylius canescens*. *Ir. Nat.* **11**: 150. (species of bees mentioned)

—— (1903) Irish Aculeata Hymenoptera. *Ir. Nat.* **12**: 46.

—— (1914) Wasps preying on sawfly caterpillars. *Ir. Nat.* **23**: 238.

—— (1915) Bees and colour selection. *Ir. Nat.* **24**: 156.

—— (1915) Selective instinct of bees. *Ir. Nat.* **24**: 188-189.

Dale-Skey, N., Askew, R., Noyes, J., Livermore, L. and Broad, G. (2016) Checklist of British and Irish Hymenoptera - Chalcidoidea and Mymarommatoidea. *Biodiversity Data Journal* **4**: e8013. doi: 10.3897/BDJ.4.e8013

Dawson, B. (2011) Bumblebee conservation and identification challenges. *Atropos* **43**: 31-38.

Day, K. R. and Watt, A. D. (1989) Population studies of the beech leaf mining weevil (*Rhynchaenus fagi*) in Ireland and Scotland. *Ecological Entomology* **14**: 23-30. (includes eulophid and braconid parasitoids)

Day, M. C. (1971) A new species of *Platygaster* Latreille (Hym., Proctotrupoidea, Platygasteridae) reproducing by thelytokous parthenogenesis. *Entomologist's Gazette* **22**: 37-42.

—— (1981) A revision of *Pompilus* Fabricius (Hymenoptera: Pompilidae), with further nomenclatural and biological considerations. *Bulletin of the British Museum of Natural History* (Entomology) **42**: 1-42.

—— (1988) Spider wasps. Hymenoptera: Pompilidae. *Handbooks for the Identification of British Insects* **6**(4): 1-60.

de Brit, G. (1972) Cocoon size and sex in the European pine sawfly. *Irish Forestry* **29**: 32.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

De Palma, A., Kuhlmann, M., Bugter, R., Ferrier, S., Hoskins, A. J., Potts, S. G., Roberts, S. P. M., Schweiger, O. and Purvis, A. (2017) Dimensions of biodiversity loss: Spatial mismatch in land-use impacts on species, functional and phylogenetic diversity of European bees. *Diversity and Distributions* **23**: 1435-1446

Delap, A. H. (1896) *Formica rufa. Ir. Nat.* **5**: 167.

—— (1913) Bees and flowers. *Ir. Nat.* **22**: 120-121.

Dietzsch, A. C., Stanley, D. A. and Stout, J. C. (2011) Relative abundance of an invasive alien plant affects native pollination processes. *Oecologia* **167**: 469-479.

Diller, E. and Shaw, M. R. (2014) Western Palaearctic Oedicephalini and Phaeogenini (Hymenoptera: Ichneumonidae, Ichneumoninae) in the National Museums of Scotland, with distributional data including 28 species new to Britain, rearing records, and descriptions of two new species of *Aethecerus* Wesmael and one of *Diadromus* Wesmael. *Entomologist's Gazette* **65**: 109-129.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Doğanlar, M. (1987) Hypopygia of most Nearctic and Palearctic species of *Dibrachys* Foerster, key to most species of the genus, and descriptions of three new species. *Spixiana* **10**: 191-206. (*D. lignicola* Graham)

Doğanlar, M. and Doğanlar, O. (2013) Systematics of the genera with reduced mandible of Eulophidae (Hymenoptera: Chalcidoidea): parasitoids of thrips (Thysanoptera). *Entomofauna* **34**: 457-516. (*Eugerium* and *Holcopelte* now synonyms of *Omphale* Haliday)

Donisthorpe, H. (1913) Some notes on the Genus *Myrmica*, Latr. *Entomologist's Rec. J. Var.* **25**: 1-8, 42-48.

—— (1922) Myrmecophilous notes for 1921. *Entomologist's Rec. J. Var.* **34**: 1-5, 21-23.

—— (1922) On some abnormalities in ants. *Entomologist's Rec. J. Var.* **34**: 81-85.

—— (1923) Myrmecophilous notes for 1922. *Entomologist's Rec. J. Var.* **35**: 1-9.

—— (1924) Myrmecophilous notes for 1923. *Entomologist's Rec. J. Var.* **36**: 49-53.

Donisthorpe, H. (1933) Additional records of ants and myrmecophiles in Britain since the 2nd Edition of "British Ants" (1927) and my paper on the ants and myrmecophiles of Windsor Forest (1930). *Entomologist's Rec. J. Var.* **45**: 132-136.

—— (1936) The oldest insect on record. *Entomologist's Rec. J. Var.* **48**: 1-2.

—— (1940) *Xorides indicatorius* Latr. ?parasitic on *Leiopus nebulosus* L., and a list of other species of hymenopterous parasites of Coleoptera in Great Britain. *Entomologist* **73**: 14-20.

—— (1946) Fifty gynandromorphous ants taken in a single colony of *Myrmica sabuleti* Meinert in Ireland. *Entomologist* **79**: 121-131, 1 plate.

—— (1946) *Ponera punctatissima* Roger (Hym., Formicidae) in Ireland, with some notes on the species. *Entomologist's mon. Mag.* **82**: 230.

—— (1947) Some gynandromorph ants and a possible pterergate for Ireland. *Entomologist* **80**: 277-279.

—— (1949) Further gynandromorph ants from Ireland. *Entomologist* **82**: 38-40.

Duffy, K. J. and Stout, J. C. (2008) The effects of plant density and nectar reward on bee visitation to the endangered orchid *Spiranthes romanzoffiana*. *Acta Oecologica* **34**: 131-138.

Dunlop, S. (2016) Identifying leaf miners. *Biodiversity Ireland* **Issue 14**: 16. (Col., Dipt., Hym., Lep.)

Eades, R. A. (1993) A note on an Irish "Wasp". *Entomologist's Rec. J. Var.* **105**: 242-243. (anecdote about A. W. Stelfox)

Ebmer, A. W. (1970) Die bienen des genus *Halictus* Latr. s. l. im Grossraum von Linz (Hymenoptera, Apidae). Part 2. *Lasioglossum* (*Lasioglossum*) Curt. *Naturkundliches Jahrbuch der Stadt Linz (1970)*: 19-82. (*L. hibernicum* n. sp.)

Edgeworth, R. L. (1864) On Irish Vespidae. *Proceedings of the Natural History Society of Dublin* **4**: 93-103.

Edmunds, H. A. and Springate, N. D. (1998) *Cimbex connatus* (Schrank) (Hymenoptera: Cimbicidae): a rare species of sawfly in the British Isles. *British Journal of Entomology and Natural History* **11**: 65-68.

Edwards, M. and Jenner, M. (2018) *Field guide to the bumblebees of Great Britain and Ireland*. Revised edition. Ocelli, London.

Edwards, R. (ed.) (1997) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland.* **Part 1**. Biological Records Centre, Huntingdon. 139pp. (*Lasius fuliginosus*, *Symmorphus bifasciatus*, *Crabro peltarius*, *Ectemnius cavifrons*, *Oxybelus uniglumis*, *Ammophila sabulosa*, *Podalonia affinis*, *Colletes floralis*)

—— (1998) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland.* **Part 2**. Biological Records Centre, Huntingdon. 138pp. (*Hedychridium ardens*, *Myrmosa atra*, *Leptothorax acervorum*, *Anoplius nigerrimus*, *Episyron rufipes*, *Ceropales maculata*, *Ancistrocerus gazella*, *A. oviventris*, *A. parietinus*, *A. scoticus*, *A. trifasciatus*, *Vespula austriaca*, *Tachysphex pompiliformis*, *Ectemnius cephalotes*, *E. continuus*, *E. lapidarius*, *Mellinus arvensis*, *Osmia aurulenta*)

—— (2008) *Scolioneura vicina* (Konow, 1894) (Hym.: Tenthredinidae): first records for mainland Britain. *Entomologist's Rec. J. Var.* **120**: 129-131. (Irish record)

Edwards, R. (ed.) (2005) Species profiles. *BWARS Newsletter* **Spring 2005**: 27-52. (*Crossocerus wesmaeli*, *Rhopalum clavipes*, *Andrena denticulata*, *A. fuscipes*, *Lasioglossum villosulum*, *Bombus pratorum*)

—— (ed.) (2006) Species profiles. *BWARS Newsletter* **Spring 2006**: 34-56. (*Chrysis mediata*, *Lasioglossum nitidiusculum*, *Bombus lucorum*, *B. terrestris*)

—— (ed.) (2006) Species profiles. *BWARS Newsletter* **Autumn 2006**: 38-60. (*Chrysis rutiliventris*, *Andrena rosae*, *A. stragulata*, *Halictus tumulorum*, *Bombus hortorum*)

—— (ed.) (2007) Species profiles. *BWARS Newsletter* **Spring 2007**: 31-55. (*Chyrsis ignita*, *C. impressa*)

—— (ed.) (2007) Species profiles. *BWARS Newsletter* **Autumn 2007**: 76-80. (*Crossocerus pusillus*, *C. tarsatus*)

—— (ed.) (2008) Species profiles. *BWARS Newsletter* **Spring 2008**: 28-54. (*Pemphredon inornatus*, *P. lethifer*, *Hylaeus communis*, *H. signatus*, *Andrena humilis*)

Edwards, R. and Broad, G. (eds) (2005) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland.* **Part 5**. Biological Records Centre, Huntingdon. (*Pseudomalus auratus*, *Formica fusca*, *F. lemani*, *Mimumesa littoralis*, *Andrena coitana*, *A. fucata*, *A. fulva*, *A. lapponica*, *A. tarsata*, *Halictus rubicundus*, *Lasioglossum cupromicans*, *L. leucopus*, *L. rufitarse*, *Nomada obtusifrons*, *Bombus bohemicus*, *B. lapidarius*, *B. monticola*, *B. muscorum*, *B. pascuorum*, *B. vestalis*)

—— (eds) (2006) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland.* **Part 6**. Biological Records Centre, Huntingdon.

Edwards, R. and Roy, H. (eds) (2009) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland.* **Part 7**. Biological Records Centre, Wallingford.

Edwards, R. and Telfer, M. (eds) (2002) *Provisional atlas of the aculeate Hymenoptera of Britain and Ireland.* **Part 4**. Biological Records Centre, Huntingdon.

Elcock, R. (1898) *Sirex gigas* in Ulster. *Ir. Nat.* **7**: 254.

Ellis, H. A. (2002) Parasitoids (Hymenoptera: Chalcidoidea) of *Phanacis hypochoeridis* (Kieffer) (Hymenoptera: Cynipidae) galls of cat's-ear (*Hypochoeris radicata* L.) in north east England. *Cecidology* **17**: 2-9. (*Eurytoma hypochoeridis*, *Stinoplus etearchus*, *Macroneura vesicularis*)

—— (2004) Parasitoids (Hymenoptera) reared from *Rabdophaga marginemtorquens* (Diptera: Cecidomyiidae) leaf galls of osier (*Salix viminalis*) in Northumberland. *Cecidology* **19**: 10-15. (*Quadrastichus pedicellaris*)

Else, G., Bolton, B. and Broad, G. (2016) Checklist of British and Irish Hymenoptera - aculeates (Apoidea, Chrysidoidea and Vespoidea). *Biodiversity Data Journal* **4**: e8050. doi: 10.3897/BDJ.4.e8050

Else, G. R. and Felton, J. C. (1994) *Mimumesa unicolor* (Vander Linden, 1829) (Hymenoptera: Sphecidae), a wasp new to the British list, with observations on related species. *Entomologist's Gazette* **45**: 107-114.

Ely, B. (2001) First UK record of *Adelognathus stelfoxi* Fitton, Gauld and Shaw (Hym.: Ichneumonidae). *Entomologist's Rec. J. Var.* **113**: 140.

Erdogan, Ö. Ç. and Beyarslan, A. (2005) Contributions to the Blacinae fauna of Turkey (Hymenoptera, Braconidae). *Entomofauna* **26**: 1- 8.

Falk, S. J. and Lewington, R. (2015) *Field Guide to the bees of Great Britain and Ireland*. British Wildlife Publications, Hook.

Faris, R. C. (1936) Records of some bees, wasps and ants from County Cavan, in 1933. *Ir. Nat. J.* **6**: 143-145.

—— (1940) Some further bee, wasp and ant records from County Cavan, *Ir. Nat. J.* **7**: 286-289.

—— (1949) *Bombus pratorum* L. in Ireland. *Ir. Nat. J.* **9**: 245-246.

Farran, G. P., Stelfox, A. W., Johnson, W. F., Halbert, J. N. and Tattersall, W. M. (1911-1915). Addenda and Corrigenda to Section 2. *Proceedings of the Royal Irish Academy. Section C: Archaeology, Celtic Studies, History, Linguistics, Literature* **31**: vii-xi. (Clare Island Survey)

Faulkner, J. (2007) County Armagh Wildlife Society - Hon. Secretary's report to members for 2006. *Ir. Nat. J.* **28**: 430-431. (no species given)

Felipo, F. J. P., Ameri, A., Talebi, A. A. and Belokobylskij, S. A. (2015) Review of the genus *Aristelix* Nixon, 1943 (Hymenoptera, Braconidae, Alysiinae), with description of a new species from Iran and clarification of the status of *Antrusa chrysogastra* (Tobias, 1986). *Journal of Hymenoptera Research* **45**: 97-111.

Felipo, F. J. P., Becerra, R. G. and Belokobylskij, S. (2016) *Aspilota ajara* sp. n. (Hymenoptera, Braconidae, Alysiinae), the first species of the genus *Aspilota* Foerster from caves. *Journal of Hymenoptera Research* **52**: 153-162.

Felton, J. C. (1981) The vice-county distribution of Psenini (Hym., Sphecidae, Pemphredoninae) in Britain, with comments on Kentish species. *Entomologist's mon. Mag.* **117**: 83-86.

Fergusson, N. D. M. (1980) A revision of the British species of *Dendrocerus* Ratzeburg (Hymenoptera: Ceraphronoidea) with a review of their biology as aphid hyperparasites. *Bulletin of the British Museum of Natural History* (Entomology) **41**: 255-314.

—— (1986) Charipidae, Ibaliidae and Figitidae. Hymenoptera: Cynipoidea. *Handbooks for the Identification of British Insects* **8**(1c): 1-55.

Fernandez-Triana, J., Shaw, M. R., Boudreault, C., Beaudin, M. and Broad, G. R. (2020) Annotated and illustrated world checklist of Microgastrinae parasitoid wasps (Hymenoptera, Braconidae). Part of: Annotated and illustrated world checklist of Microgastrinae parasitoid wasps (Hymenoptera, Braconidae). *ZooKeys* **920**: 1-1089.

Ferrière, C. and Kerrich, G. J. (1958) Hymenoptera 2. Chalcidoidea Agaontidae, Leucospidae, Chalcididae, Eucharitidae, Perilampidae, Cleonymidae and Thysanidae. *Handbooks for the Identification of British Insects* **8**(2a): 1-40.

Field, J., Paxton, R., Soro, A., Craze, P. and Bridge, C. (2012) Body size, demography and foraging in a socially plastic sweat bee: a common garden experiment. *Behavioral Ecology and Sociobiology* **66**: 743-756.

Finch, K. and Finch, D. (2020) Saxon Wasp (*Dolichovespula saxonica* (Fabricius)) (Hymenoptera, Vespidae), a social wasp species new to Ireland. *Ir. Nat. J.* **37**: 56-58.

Fischer, M. (1969) Notes on reared Opiinae (Hymenoptera, Braconidae). *Proceedings of the Royal Irish Academy* **67**B: 217-231.

Fischer, M. (1995) Über die altweltlichen *Orthostigma*-Arten und Ergänzungen zur *Aspilota* Gattungsgruppe (Hymenoptera, Braconidae, Alysiinae). *Linzer biologische Beiträge* **27**: 669-752.

Fisher, N. (1933) Phenological Report for 1932. *Ir. Nat. J.* **4**: 159-161.

Fitch, E. A. (1879) Granary Weevils: *Sitophilus granarius* and *S. oryzae*. *Entomologist* **12**: 41-50.

Fitton, M. and Ficken, L. (1990) British ichneumon-flies of the tribe Oedemopsini (Hymenoptera: Ichneumonidae). *Entomologist* **109**: 200-214.

Fitton, M. G. (1976) The western Palaearctic Ichneumonidae (Hymenoptera) of British authors. *Bulletin of the British Museum of Natural History* (Entomology) **32**: 301-373.

—— (1984) A review of the British Collyriinae, Eucerotinae, Stilbopinae and Neorhacodinae (Hymenoptera: Ichneumonidae). *Entomologist's Gazette* **35**: 185-195.

—— (1985) The ichneumon-fly genus *Banchus* (Hymenoptera) in the Old World. *Bulletin of the British Museum of Natural History* (Entomology) **51**: 1-60.

Fitton, M. G. and Boston, M. (1988) The British species of *Phthorima* (Hymenoptera: Ichneumonidae). *Entomologist's Gazette* **39**: 165-170.

Fitton, M. G. and Gauld, I. D. (1980) A review of the British Cremastinae (Hymenoptera: Ichneumonidae), with keys to the species. *Entomologist's Gazette* **31**: 63-71.

Fitton, M. G., Gauld, I. D. and Shaw, M. R. (1982) The taxonomy and biology of the British Adelognathinae (Hymenoptera: Ichneumonidae). *Journal of Natural History* **16**: 275-283.

Fitton, M. G., Shaw, M. R. and Gauld, I. D. (1988) Pimpline ichneumon-flies. Hymenoptera, Ichneumonidae (Pimplinae). *Handbooks for the Identification of British Insects* **7**(1): 11-110.

Fitzgerald, J. R. (1901) Habits of Humble Bees. *Ir. Nat.* **10**: 203.

Fitzpatrick, Ú. (2010) Bees. *Biodiversity Ireland* **Issue 6**: 14.

—— (2010) Biodiversity beginners - bumblebees. *Biodiversity Ireland* **Issue 6**: 20-21.

—— (2012) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 9**: 13.

—— (2012) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 10**: 12.

—— (2015) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 11**: 23.

—— (2015) Ireland is buzzing. *Biodiversity Ireland* **Issue 12**: 6-9.

—— (2015) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 12**: 19.

—— (2016) Biodiversity tales. Bees and hoverflies. *Biodiversity Ireland* **Issue 13**: 16.

—— (2016) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 14**: 17.

—— (2017) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 15**: 17-18.

—— (2017) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 16**: 17.

—— (2018) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 17**: 17.

—— (2018) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 18**: 16.

—— (2019) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 19**: 17.

—— (2020) Biodiversity tales. Bees. *Biodiversity Ireland* **Issue 20**: 20.

Fitzpatrick, U. and Murray, T. E. (2006) *Bee surveys on 44 protected sites in Ireland 2004-2005. Report to National Parks and Wildlife Service (Ireland) and Environment and Heritage Service (Northern Ireland)*. National Parks and Wildlife Service & Environment and Heritage Service, Dublin and Belfast.

Fitzpatrick, Ú., Murray, T. E., Byrne, A., Paxton, R. J. and Brown, M. J. F. (2006) *Regional Red List of Irish bees.* Higher Education Authority. National Parks and Wildlife Service, Dublin.

Fitzpatrick U., Murray, T. E., Paxton, R. J., Breen, J., Cotton, D., Santorum, V. and Brown, M. J. F. (2007) Rarity and decline in bumblebees - a test of causes and correlates in the Irish fauna. *Biological Conservation* **136**: 185-194.

Fitzpatrick, Ú., Murray, T. E., Paxton, R. J. and Brown, M. J. F. (2006) Revisions to the checklist of Irish bees. *Ir. Nat. J.* **28**: 240-242.

—— (2006) *The state of Ireland's bees*. Environment and Heritage Service, Belfast and National Parks and Wildlife Service, Dublin.

—— (2007) Building on IUCN regional Red Lists to produce lists of species of conservation priority: a model with Irish bees. *Conservation Biology* **21**: 1324-1332.

Fitzpatrick, Ú., Regan, E. and Lysaght, L. (2011) Ireland's biodiversity in 2010. *Biodiversity Ireland* **Issue 7**: 4-5.

Flemyng, W. W. (1897) Wasps in Co. Waterford. *Ir. Nat.* **6**: 282.

—— (1901) *Sirex gigas* in Co. Waterford. *Ir. Nat.* **10**: 255.

—— (1919) *Argynnis aglaia* in Co Waterford. *Ir. Nat.* **28**: 55.

Flynn, J. E. (1936) Entomological notes from Glengarriff, Co. Cork. *Ir. Nat. J.* **6**: 76.

—— (1937) Early appearance of Painted Lady Butterfly and other insects at Glengarriff. *Ir. Nat. J.* **6**: 199. (Hym., Lep.)

Fogarty, J. (2017) A first inland and ground-nesting occurrence of *Osmia aurulenta* (Hymenoptera: Megachilidae) from Co. Tipperary. *Ir. Nat. J.* **35**: 129-130.

—— (2020) First record of *Ibalia leucospoides* (Hymenoptera, Ibaliidae) in Ireland. *Ir. Nat. J.* **37**: 56.

Foot, A. W. (1871) Some native Hymenoptera. *Proceedings of the Natural History Society of Dublin* **6**: 80-84.

Forshage, M., Bowdrey, J., Broad, G., Spooner, B. and van Veen, F. (2017) Checklist of British and Irish Hymenoptera - Cynipoidea. *Biodiversity Data Journal* **5**: e8049. <https://doi.org/10.3897/BDJ.5.e8049>

Foster, G. (1930) *Colletes daviesanus* at Benderg, Co. Down. *Ir. Nat. J.* **3**: 112.

—— (1934) Sand wasp, *Mellinus arvensis* at work. *Ir. Nat. J.* **5**: 89.

Frazer, W. (1858) (*Vespa* sp. in Co. Wicklow). *Proceedings of the Natural History Society of Dublin* **2**: 103; *The Natural History Review (Proceedings of Societies)* **5**: 187.

Freeland, S. (1928) Phenological siftings. *Ir. Nat. J.* **2**: 15.

Freke, P. E. (1895) Aculeate Hymenoptera in Ireland. *Entomologist's mon. Mag.* **31**: 281-282.

—— (1896) A list of Irish Hymenoptera Aculeata. *Ir. Nat.* **5**: 39-43.

—— (1896) Additions to the list of Irish Aculeate Hymenoptera. *Ir. Nat.* **5**: 294.

—— (1897) *Odynerus sinuatus* (Fab.) in Co. Carlow. *Ir. Nat.* **6**: 222.

—— (1897) *Crabro aphidium*, Lep., in Ireland. *Entomologist's mon. Mag.* **33**: 280.

—— (1905) Stray notes on Aculeates. *Entomologist* **38**: 147-152.

Freke, P. E. and Cuthbert, H. K. G. (1897) Additions to the list of Irish Aculeate Hymenoptera during 1897. *Ir. Nat.* **6**: 324.

Fristy, G. E. (1920) The Aculeate Hymenoptera of the British Isles. *Proceedings of the South London Entomological and Natural History Society* **1920**: 1-11.

Fritch, R. A., Sheridan, S., Finn, J. A., McCormack, S. and Ó hUallacháin, D. (2017) Enhancing the diversity of breeding invertebrates within field margins of intensively managed grassland: Effects of alternative management practices. *Ecology and Evolution* **7**: 9763-9774.

Fusu, L. (2017) An integrative taxonomic study of European *Eupelmus* (*Macroneura*) (Hymenoptera: Chalcidoidea: Eupelmidae), with a molecular and cytogenetic analysis of *Eupelmus* (*Macroneura*) *vesicularis*: several species hiding under one name for 240 years. *Zoological Journal of the Linnean Society* **181**: 519-603.

Gadallah, N. S. and Ghahari, H. (2015) An annotated catalogue of the Iranian Braconinae (Hymenoptera: Braconidae). *Entomofauna* **36**: 121-176. (*Bracon nigratus*, *B. atrator*, *B. minutator*, *B. parvulus*, *B. praetermisus*, *B. variegator*, *B. erraticus*, *B. osculator*, *B, delibator*, *Habrobracon concolorans*, *H. stabilis*)

Gärdenfors, U. (1986) Taxonomic and biological revision of Palearctic *Ephedrus* Haliday (Hymenoptera: Braconidae, Aphidiinae). *Entomological Scandinavica* Supplement **No. 27**.

Gauld, I. D. (1976) The taxonomy of the Genus *Heteropelma* Wesmael (Hymenoptera: Ichneumonidae). *Bulletin of the British Museum of Natural History* (Entomology) **34**: 153-219.

Gauld, I. D. and Fitton, M. G. (1980) The British species of Phrudinae (Hym., Ichneumonidae). *Entomologist's mon. Mag.* **115** (1979): 197-199.

—— (1981) Keys to the British xoridine parasitoids of wood-boring beetles (Hymenoptera: Ichneumonidae). *Entomologist's Gazette* **32**: 259-267.

Gencer, L. (2004) Contribution to the knowledge of the Family Eulophidae (Hymenoptera: Chalcidoidea) from Turkey, with some new records. *Phytoparasitica* **32**: 264-273. (*Aprostocetus catius*, *A. citrinus*, *A. emesa*, *A. gaus*, *A. pausiris*, *A. pygmaeus*)

Gerard, B. M. (1985) *Tetrastichus halidayi* (Graham) (Hym., Eulophidae) reared from the raspberry beetle, *Byturus tomentosus* (Deg.) (Col., Byturidae). *Entomologist's mon. Mag.* **121**: 234.

Gerard, P. J., McNeill, M. R., Barratt, B. I. P. and Whiteman, S. A. (2006) Rationale for release of the Irish strain of *Microctonus aethiopoides* for biocontrol of clover root weevil. *New Zealand Plant Protection* **59**: 285-289.

Ghahari, H., Buhl, P. N., Kocak, E. and Iranipour, S. (2015) An annotated catalogue of the Iranian Scelionidae (Hymenoptera: Platygastroidea). *Entomofauna* **36**: 349-376. (*Telenomus chloropus*)

Ghahari, H. and Fischer, M. (2011) A contribution to the Braconidae (Hymenoptera: Ichneumonoidea) from north-western Iran. *Calodema* **134**: 1-6.

Gibson, G. A. P. (2010) *Calosota* Curtis (Hymenoptera, Chalcidoidea, Eupelmidae) - review of the New World and European fauna including revision of species from the West Indies and Central and North America. *Zookeys* **55**: 1-75. (*C. aestivalis*)

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S., Ryan, B., Kennedy, T. and Connery, J. (1995) Aphid-parasitoid interactions in a winter wheat cereal crop: field trials involving aphicide application. *Journal of Applied Entomology* **119**: 233-239.

Godfray, H. C. J. (2020) *Chorebus cyparissa* (Nixon) added to, and *Chorebus navicularis* (Nees) deleted from, the British checklist (Hymenoptera: Braconidae). *Entomologist's mon. Mag.* **156**: 253-256.

Godfray, H. C. J. and Bland, K. P. (2011) Three species of parasitoid wasp (Braconidae, Alysiinae) new to the British Isles. *British Journal of Entomology and Natural History* **24**: 127-131. (*Chorebus crassipes*)

Good, J. A. (1986) Insect visitors to *Iris pseudacorus* (Iridaceae) in Ireland. *Ir. Nat. J.* **22**: 71-74.

—— (1986) Invertebrates of Irish midlands raised bogs: part IV. Notes on terrestrial insects. *Bulletin of the Irish Biogeographical Society* **9**: 2-9.

—— (2009) Local and regional studies of Cryptobiota: esoteric stamp collecting or essential ecology? *Bulletin of the Irish Biogeographical Society* **33**: 115-169.

Graham, M. W. R. de V. (1948) *Harpiphorus lepidus* Klug (Hym., Tenthredinidae) in Ireland. *Entomologist's mon. Mag.* **84**: 264.

—— (1956) A revision of the Walker types of Pteromalidae (Hym., Chalcidoidea) Part 1 (including descriptions of new genera and species). *Entomologist's mon. Mag.* **92**: 76-98.

—— (1959) Two additional British species of *Aphaereta* (Hym., Braconidae), one new to Science. *Entomologist's mon. Mag.* **95**: 274-276.

—— (1959) Notes on Pteromalidae (Hym., Chalcidoidea), with descriptions of new genera and species. *Transactions of the Society of British Entomology* **13**: 97-112.

—— (1961) Two new species of *Aprostocetus* Westwood (Hym., Eulophidae) and the first British records of a third species. *Entomologist* **94**: 29-33.

—— (1961) A new species of *Aprostocetus* Westwood (Hym., Eulophidae) from the British Isles. *Entomologist* **94**: 290-294.

—— (1961) The Genus *Aprostocetus* Westwood, *sensu lato* (Hym., Eulophidae); notes on the synonymy of European species. *Entomologist's mon. Mag.* **97**: 34-64.

—— (1961) New British records of *Mesidia annulipes* (Walker) and a note on the identity of *Myina livens* Walker (Hym., Aphelinidae). *Entomologist's mon. Mag.* **97**: 140-142.

—— (1961) Three new species of the *Caenacis-Cecidostiba* group (Hym., Pteromalidae), and a British record of a fourth species. *Entomologist's mon. Mag.* **97**: 171-176.

—— (1963) Additions and corrections to the British list of Eulophidae (Hym., Chalcidoidea), with descriptions of some new species. *Transactions of the Society of British Entomology* **15**: 167-275.

—— (1966) A new species of *Spalangiopelta* (Hym., Chalcidoidea, Pteromalidae) from the British Isles. *Entomologist* **99**: 187-189.

—— (1967) Note on two type specimens of British Pteromalidae (Hym., Chalcidoidea) in the G.T. Rudd collection (Yorkshire Museum, York). *Entomologist* **100**: 77-78.

—— (1969) Some Torymidae (Hymenoptera: Chalcidoidea) new to Britain, with notes on other British species. *Proceedings of the Royal Entomological Society of London B* **38**: 61-69.

Graham, M. W. R. de V. (1969) The Pteromalidae of North-Western Europe (Hymenoptera: Chalcidoidea). *Bulletin of the British Museum of Natural History* (Entomology) *Supplement* **16**.

—— (1970) Some Encyrtidae (Hym., Chalcidoidea) new to the British list. *Entomologist* **103**: 275-281.

—— (1973) Some species of *Tetrastichus* (Hym., Eulophidae) new to the British list. *Entomologist's Gazette* **24**: 364-366.

—— (1973) Some Mymaridae (Hymenoptera: Chalcidoidea) new to Britain. *Entomologist's Gazette* **24**: 47-50.

—— (1976) The British species of *Aphelinus* with notes and descriptions of other European Aphelinidae (Hymenoptera). *Systematic Entomology* **1**: 123-146.

—— (1982) The Haliday collection of Mymaridae (Insecta, Hymenoptera, Chalcidoidea) with taxonomic notes on some material in other collections. *Proceedings of the Royal Irish Academy* **82**B: 189-243.

—— (1985) On some Rondani types of Chalcidoidea (Hym.) in the Haliday Collection, Dublin. *Entomologist's mon. Mag.* **121**: 159-162.

—— (1987) Some early issues of *The Entomologist* (**1**: 1840-1842) which provide precise dates for Haliday plates of Chalcidoidea (Hym.). *Entomologist's mon. Mag.* **123**: 185-189.

—— (1987) A reclassification of the European Tetrastichinae (Hymenoptera: Eulophidae), with a revision of certain genera. *Bulletin of the British Museum of Natural History* (Entomology) **55**: 1-392.

—— (1991) Type material in the University Museum, Oxford, of one Kirby and five Walker species of Eulophidae (Hym., Chalcidoidea) with new synonymy and designation of lectotypes. *Entomologist's mon. Mag.* **127**: 7-9.

—— (1991) Revision of the western European species of *Ericydnus* Haliday (Hym., Encyrtidae), including one species new to science. *Entomologist's mon. Mag.* **127**: 177-189.

—— (1993) Swarming in Chalcidoidea (Hym.) with the description of a new species of *Torymus* (Hym., Torymidae) involved. *Entomologist's mon. Mag.* **129**: 15-22.

—— (1993) Revision of European species of the genera *Trigonoderus* Westwood and *Plutothrix* Förster (Hym., Pteromalidae). *Entomologist's mon. Mag.* **129**: 107-118.

—— (1994) Diagnostic characters of some critical species of British Encyrtidae (Hym., Chalcidoidea). *Entomologist's mon. Mag.* **130**: 183-186.

Graham, M. W. R. de V. and Claridge, M. F. (1965) Studies on the *Stenomalina*-group of Pteromalidae (Hymenoptera: Chalcidoidea). *Transactions of the Royal Entomological Society of London* **117**: 263-311.

Greer, T. (1933) Queen wasp and *E. cardamines*. *Entomologist's Rec. J. Var.* **45**: 93-94.

Griffith, H. A. C. (1930) Early flights of bees. *Ir. Nat.* **3**: 40.

Griffiths, G. C. D. (1964) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). 1. General questions of taxonomy, biology and evolution. *Beiträge zur Entomologie* **14**: 823-914.

—— (1966) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). II. The parasites of *Agromyza* Fallén. *Beiträge zur Entomologie* **16**: 551-605.

Griffiths, G. C. D. (1966) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). III. The parasites of *Paraphytomyza* Enderlein, *Phytagromyza* Hendel and *Phytomyza* Fallén. *Beiträge zur Entomologie* **16**: 775-951. (published 1967)

—— (1967) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). IV. The parasites of *Hexomyza* Enderlein, *Melanagromyza* Hendel, *Ophiomyia* Braschnikov and *Napomyza* Westwood. *Beiträge zur Entomologie* **17**: 653-696.

—— (1968) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). VI. The parasites of *Cerodontha* Rondani s. l. *Beiträge zur Entomologie* **18**: 63-152.

—— (1984) The Alysiinae (Hym. Braconidae) parasites of the Agromyzidae (Diptera). VII. Supplement. *Beiträge zur Entomologie* **34**: 343-362.

Groden, E., Drummond, F. A., Garnas, J. and Franceour, A. (2005) Distribution of an invasive ant, *Myrmica rubra* (Hymenoptera: Formicidae) in Maine. *Journal of Economic Entomology* **98**: 1774-1784. (1931 importation from Ireland)

Güçlü, C. (2011) A contribution to the knowledge of Blacinae (Hymenoptera: Braconidae) from Turkey. *Scientific Research and Essays* **6**: 575-579. (*Blacus filicornis*, *B. exilis*, *B. hastatus*, *B. humilis*, *B. paganus*)

Güçlü, C. and Özbek, H. (2011) A contribution to the knowledge of Euphorinae (Hymenoptera: Braconidae) from Turkey. *The Journal of the Entomological Research Society* **13**: 61-70. (*Allurus lituratus*, *Perilitus brevicollis*, *P. aemulus*, *P. deceptor*, *Peristenus grandiceps*, *P. pallipes*)

—— (2011) A contribution to the knowledge of the subfamily Brachistinae (Hymenoptera: Braconidae) in Turkey. *The Journal of the Entomological Research Society* **13**: 15-26. (*Schizoprymnus ambiguus*, *Eubazus flavipes*, *E. pallipes*, *E. tibialis*)

—— (2011) A contribution to the knowledge of Microgastrinae (Hymenoptera: Braconidae) from Turkey. *Journal of Biology & Life Sciences* **2**: 1-5. (*Apanteles obscurus*, *Microplitis lugubris*, *M. spinolae*)

Guerrieri, E. and Noyes, J. (2005) Revision of the European species of *Copidosoma* Ratzeburg (Hymenoptera: Encyrtidae), parasitoids of caterpillars (Lepidoptera). *Systematic Entomology* **30**: 97-174.

Guerrieri, E. and Noyes, J. S. (2000) Revision of European species of genus *Metaphycus* Mercet (Hymenoptera: Chalcidoidea: Encyrtidae), parasitoids of scale insects (Homoptera: Coccoidea). *Systematic Entomology* **25**: 147-222. (*M. petitus* Walker, *M. chermis* (Fonscolombe))

Guichard, K. M. (1974) *Colletes halophila* Verhoff (Hym., Apidae) and its *Epeolus* parasite at Swanscombe in Kent, with a key to the British species of *Colletes* Latreille. *Entomologist's Gazette* **25**: 195-199.

Haelewaters, D., Boer, P. and Noordijk, J. (2015) Studies of Laboulbeniales (Fungi, Ascomycota) on *Myrmica* ants: *Rickiawasmannii* in the Netherlands. *Journal of Hymenoptera Research* **44**: 39-47.

Haeselbarth, E. (1970) Über die Braconiden *Heterogamus dispar* (Curtis) und *H. excavatus* Telenga (Hymenoptera). *Mitteilungen der Münchener entomologischen Gessellschaft* **59** (1969): 174-179.

—— (1971) Notizen zur Gattung *Pygostolus* Haliday (Hymenoptera, Braconidae). *Opuscula Zoologica München* **No. 112**: 1-7.

Haeselbarth, E. (1973) Die *Blacus*-Arten Europas und Zentral-Asiens. *Veröffentlichungen der Zoologischen Staatssammlung München* **16**: 69-170.

—— (1988) Zur Braconidengattung *Townesilitus* Haeselbarth and Loan, 1983. *Entomofauna* **9**: 429-460.

—— (1996) *Rilipertus* gen. nov., eine neue Gattung der Euphorinae (Hymenoptera, Braconidae). *Entomofauna* **17**: 397-412.

—— (1999) Zur Braconiden-Gattung *Perilitus* Nees, 1818. 2. Beitrag: die arten mit ausgebildetem ersten Cubitus-Abschnitt (Insecta, Hymenoptera, Braconidae). *Mitteilungen der Münchener entomologischen Gessellschaft* **89**: 11-46.

Halbert, J. N. (1897) (*Lasius flavus*). *Ir. Nat.* **6**: 277.

—— (1902) Hymenoptera. Pp 195-196. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1905) *Psithyrus campestris* in Co. Wicklow. *Ir. Nat.* **14**: 198-199.

—— (1907) Contributions to the Natural History of Lambay. Hymenoptera. *Ir. Nat.* **16**: 43-44.

—— (1908) Hymenoptera. Pp 151-156. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1908) (Review: new Kerry insects). *Ir. Nat.* **17**: 19-20.

—— (1909) (*Formica fusca*). *Ir. Nat.* **18**: 252.

—— (1915) (*Formica fusca*). *Ir. Nat.* **24**: 44.

—— (1920) *Rhyssa persuasoria* in Ireland. *Ir. Nat.* **29**: 25.

—— (1936) The ant *Lasius fuliginosus* Latr., in County Wexford. *Ir. Nat. J.* **6**: 76.

Haliday, A. H. (1833) Burrowing Hymenoptera. *The Entomological Magazine* **1**: 516.

—— (1833-1835) Essay on the classifications of Parasitic Hymenoptera etc. *The Entomological Magazine* **1**: 333-350. **2**: 225-259.

—— (1836) Essay on Parasitic Hymenoptera. *The Entomological Magazine* **3**: 20-45, 121-147.

—— (1837) Essay on parasitic Hymenoptera. *The Entomological Magazine* **4**: 38-59, 92-106.

—— (1837) Essay on parasitic Hymenoptera. *The Entomological Magazine* **4**: 203-221.

—— (1838) Addenda to the genus *Alysia*. *The Entomological Magazine* **5**: 519.

—— (1838) Essay on the classification of parasitic Hymenoptera. *The Entomological Magazine* **5**: 209-248, plate xvii.

—— (1839) *Hymenopterorum Synopsis and Methodum Fallenii ut plurimum accomodata*. 4pp. Privately printed, Belfast.

—— (1858) Note on a peculiar form of the ovaries observed in a hymenopterous insect, constituting a new genus and species of the Family Diapridae. *The Natural History Review (Proceedings of Societies)* **4**: 166-174.

Halstead, A. J. (1996) 1995 annual exhibition. Hymenoptera. *British Journal of Entomology and Natural History* **9**: 236-239. (Hodge, P. J.: *Vespula austrica* (Panz))

Halstead, A. J. (1998) 1997 annual exhibition. Hymenoptera. *British Journal of Entomology and Natural History* **11**: 110-113. (Edmunds, H. A.: *Cimbex connatus* (Schr.) - Eire)

Hansson, C. and Shevtsova, E. (2012) Revision of the European species of *Omphale* Haliday (Hymenoptera, Chalcidoidea, Eulophidae). *Zookeys* **232**: 1-157.

Harding, P. T. (1981) A handlist of the papers of Denis R. Pack Beresford at the library of the Royal Irish Academy. *Ir. Nat. J.* **20**: 235-240.

Hart, W. E. (1908) Scarcity of wasps. *Ir. Nat.* **17**: 22.

Hartley, T. (1909) *Sirex gigas* in Co. Carlow. *Ir. Nat.* **18**: 255.

Hassett, J., Browne, K. A., McCormack, G. P., Moore, E., Soland, G. and Geary, M. (2018) A significant pure population of the dark European honey bee (*Apis mellifera mellifera*) remains in Ireland. *Journal of Apicultural Research* **57**: 337-350. DOI: 10.1080/00218839.2018.1433949

Hedqvist, K. J. (1974) The genus *Merismus* Walk. in Sweden and description of a new genus and species (Hym. Pteromalidae, Miscogasterinae). *Entomologica Scandinavica* **5**: 143-147.

—— (1975) Notes on Chalcidoidea VII. A key to Swedish species of the Genus *Halticoptera* Spin. and three related genera (Hymenoptera: Pteromalidae). *Entomologica Scandinavica* **6**: 167-181.

—— (1978) Hymenoptera. Pp 286-289. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Helden, A. J., Anderson, A., Finn, J. and Purvis, G. (2015) The response of sward-dwelling arthropod communities to reduced grassland management intensity in pastures. *Irish Journal of Agricultural and Food Research* **54**: 107-120.

Heslop-Harrison, J. W. (1957) *Rhodites spinosissimae* Giraud (Hym., Cynip.) in Ireland. *Entomologist* **90**: 77.

Hill, E. and Murray, T. (2016) An Irish record of *Bombus vestalis* (Geoffroy, 1785) (Hymenoptera: Apidae, Apinae), after 88 years. *Ir. Nat. J.* **35**: 66-67.

Hincks, W. D. (1945) *Ephedrus picticornis* Stelfox (Hym., Aphididae) in England. *Entomologist's mon. Mag.* **81**: 144.

—— (1950) Notes on some British Mymaridae (Hym.). *Transactions of the Society of British Entomology* **10**: 167-207.

—— (1952) The British species of the Genus *Ooctonus* Haliday, with a note on some recent work on the fairy flies (Hym., Mymaridae). *Transactions of the Society of British Entomology* **11**: 153-163.

—— (1957) Notes on some species of Trichogrammatidae (Hym.: Chalcidoidea) omitted from the "Check list of British insects". *Journal of the Society for British Entomology* **5**: 215-218.

—— (1959) The British species of the Genus *Alaptus* Haliday in Walker (Hym., Chalc., Mymaridae). *Transactions of the Society of British Entomology* **13**: 137-148.

Hinz, R. (1996) Übersicht über die europäischen Arten von *Lethades* Davis (Insecta Hymenoptera, Ichneumonidae, Ctenopelmatinae). *Spixiana* **19**: 271-279. (*L. cingulator* Hinz, 1976)

Hinz, R. and Horstmann, K. (2000) Die westpaläarktischen Arten von *Exephanes* Wesmael (Insecta, Hymenoptera, Ichneumonidae, Ichneumoninae). *Spixiana* **23**: 15-32. (*E. venustus* (Tischbein, 1876))

Horstmann, K. (2001) Revision der bisher zu *Iselix* Förster gestellten westpaläarktischen Arten von *Phygadeuon* Gravenhorst (Insecta, Hymenoptera, Ichneumonidae, Cryptinae). *Spixiana* **24**: 207-229. (*P. brevitarsis*)

—— (2008) Revision der europäischen Arten von *Ephialtes* Gravenhorst, 1829, mit Bemerkungen zu weiteren holarktischen Arten (Hymenoptera, Ichneumonidae, Pimplinae). *Entomofauna* **29**: 145-168. (*E. duplicauda*)

Huber, J. T. (2018) Neotype designation for *Anaphes brevis* Walker (Hymenoptera, Mymaridae). *Journal of Hymenoptera Research* **63**: 51-60.

Huddleston, T. (1980) A revision of the western Palaearctic species of the genus *Meteorus* (Hymenoptera: Braconidae). *Bulletin of the British Museum of Natural History* (Entomology) **41**: 1-58.

—— (1984) The Palaearctic species of *Ascogaster* (Hymenoptera: raconidae). *Bulletin of the British Museum of Natural History* (Entomology) **49**: 341-392.

Huggert, L. (1983) On *Telenomus*, mainly European; redescriptions, new taxa, synonymies and combinations (Hymenoptera, Proctotrupoidea: Scelionidae). *Entomological Scandinavica* **14**: 145-167.

Hunter, T. (2020) *Periope hoerhammeri* (Heinrich) (Hymenoptera: Ichneumonidae, Metopiinae) new to Britain, with a basic key to males of the European species of *Periope*. *British Journal of Entomology and Natural History* **33**: 259-261. (*P. ausculator*)

Idar, M. (1975) Redescriptions of *Hadrodactylus paludicola* (Hlgr.), *H. femoralis* (Hlgr.) and *H. insignis* (Krb.) (Hymenoptera: Ichneumonidae). *Entomologica Scandinavica* **6**: 182-190.

—— (1981) Revision of the European species of the genus *Hadrodactylus* Förster (Hymenoptera: Ichneumonidae). *Entomological Scandinavica* **12**: 231-239.

Jameson, H. L. (1893) *Sirex gigas* and *Macroglossa stellatarum* in Co. Louth. *Ir. Nat.* **2**: 229.

Japoshvili, G. and Abrantes, I. (2006) *Aphelinus* species (Hymenoptera: Aphelinidae) from the Iberian Peninsula, with the description of one new species from Portugal. *Journal of Natural History* **40**: 855-862. (*A. abdominalis*, *A. asychis*, *A. chaonia*, *A. varipes*)

Japoshvili, G. O. and Noyes, J. S. (2006) New data on the European fauna of encyrtid wasps (Hymenoptera, Chalcidoidea, Encyrtidae). *Entomological Review* **86**: 298-304. (*Bothriothorax clavicornis*, *Encyrtus infidus*, *Trichomastus cyaneus*)

Jennings, A., Duggan, E., Perry, I. J. and Hourihane, J. O. (2010) Epidemiology of allergic reactions to Hymenoptera stings in Irish school children. *Pediatric Allergy and Immunology* **21**: 1166-1170.

Jennings, M. T. (2016) Some recent records of *Pteromalus microps* (Graham, 1969) (Hymenoptera: Pteromalidae) from Great Britain. *Entomologist's mon. Mag.* **152**: 120.

Jennings, M. T. and Jennings, S. A. (2016) Records of *Xestophanes potentillae* (Retzius) and *X. brevitarsis* (Thomson) (Hymenoptera: Cynipidae) derived from herbarium specimens of *Potentilla* species at the British and Irish Herbarium, Natural History Museum, London. *British Journal of Entomology and Natural History* **29**: 129-133. (Tipperary: *X. potentillae*)

Jensen, P. B. (1989) revision of the genus *Aschitus* (Hymenoptera: Encyrtidae) in Europe and Soviet Asia. *Entomological Scandinavica* **19**: 293-323.

Jess, S., Murchie, A., Allen, D. and Crory, A. (2017) First observation of *Tomostethus nigritus* (Fabricius) (Hymenoptera: Tenthredinidae) on urban ash trees in Ireland. *Ir. Nat. J.* **35**: 134-136.

Johnson, N. F. and Masner, L. (2004) The genus *Thoron* Haliday (Hymenoptera: Scelionidae) egg parasitoids of waterscorpions (Hemiptera: Nepidae), with key to world species. *American Museum Novitates* **3452**. 16pp.

Johnson, W. F. (1888) *Sirex gigas* at Armagh. *Entomologist's mon. Mag.* **25**: 132.

—— (1894) A black variety of *Andrena rosae*, var. *trimmerana*. *Entomologist's mon. Mag.* **30**: 236.

—— (1896) *Bombus smithianus*, White at Poyntzpass, Ireland. *Entomologist's mon. Mag.* **32**: 232. (& spp.)

—— (1896) Irish Hymenoptera Aculeata. *Ir. Nat.* **5**: 116-117.

—— (1896) *Vespa norvegica*, F., at Omeath, Co. Louth. *Ir. Nat.* **5**: 213.

—— (1900) A braconid parasite of *Anobium domesticum*. *Ir. Nat.* **9**: 270.

—— (1901) *Spathius exaratus*, L., parasitic on *Anobium domesticum*, Forc. *Entomologist's mon. Mag.* **37**: 15.

—— (1904) A few Irish Ichneumonidae. *Entomologist's mon. Mag.* **40**: 262.

—— (1904) Ichneumonidae and Braconidae from the North of Ireland. *Ir. Nat.* **13**: 255-256.

—— (1907) Lepidoptera in the North of Ireland during 1906. *Ir. Nat.* **16**: 161. (*Apanteles vanessae*)

—— (1907) Notes on Irish Hymenoptera. *Ir. Nat.* **16**: 244-247.

—— (1910) Aculeate Hymenoptera at Poyntzpass. *Ir. Nat.* **19**: 48-49.

—— (1912) *Ichneumon lugens*, Grav., hybernating. *Entomologist's mon. Mag.* **48**: 91.

—— (1912) Ichnemonidae and Braconidae from the north-east of Ireland. *Ir. Nat.* **21**: 77-79.

—— (1913) Some Irish Ichenumonidae and Braconidae. *Ir. Nat.* **22**: 138-141.

—— (1914) Some Irish Ichneumonidea. *Ir. Nat.* **23**: 64-67.

—— (1914) A teratological specimen of *Myrmica rubra*. *Ir. Nat.* **23**: 94.

—— (1914) *Lissonota vicina*, a rare ichneumon fly. *Ir. Nat.* **23**: 122.

—— (1915) Ichneumonidea from the North of Ireland. *Ir. Nat.* **24**: 130-133.

—— (1916) Ichneumonidae and Braconidae from Counties Armagh and Donegal. *Ir. Nat.* **25**: 17-21.

—— (1916) Hymenoptera Aculeata in the Counties of Armagh and Donegal. *Ir. Nat.* **25**: 61-62.

—— (1917) Some Irish Ichnemonidae. *Ir. Nat.* **26**: 37-40.

—— (1917) *Lissonota basalis* Brischke in Ireland. An addition to the Brittanic List. *Ir. Nat.* **26**: 82-83.

—— (1918) Aculeate Hymenoptera from the Counties of Armagh and Donegal. *Ir. Nat.* **27**: 2-3.

—— (1918) A late wasp. *Ir. Nat.* **27**: 12.

—— (1918) Some more Irish Ichnemonidae and Braconidae. *Ir. Nat.* **27**: 106-109.

—— (1919) Aculeate Hymenoptera from the Counties of Donegal, Fermanagh and Armagh. *Ir. Nat.* **28**: 6-8.

—— (1919) Irish Ichneumonidae and Braconidae. *Ir. Nat.* **28**: 33-37.

Johnson, W. F. (1919) *Rhyssa persuasoria* in the Counties of Down and Fermanagh. *Ir. Nat.* **28**: 115-118.

—— (1919) Irish Hymenoptera Aculeata in 1919. *Ir. Nat.* **28**: 132-133.

—— (1920) Irish Ichneumonidae and Braconidae. *Ir. Nat.* **29**: 7-10.

—— (1920) Five species of Ichenumonidae new to the Britannic List. *Ir. Nat.* **29**: 19-20.

—— (1920) Hibernating ichneumon-flies. *Ir. Nat.* **29**: 65-66.

—— (1920) *Halictus rubicundus* and *Lycosa picta*. *Ir. Nat.* **29**: 89-91. (& spp.)

—— (1920) Some Irish sawflies. *Ir. Nat.* **29**: 110-115.

—— (1921) *Euryproctus* (*Hypamblys*) *buccatus* Holmgt. at Carlingford. *Entomologist's mon. Mag.* **57**: 277-278.

—— (1921) Some Irish Hymenoptera Aculeata. *Ir. Nat.* **30**: 33-37.

—— (1921) Irish Hymenoptera Aculeata. Some corrections. *Ir. Nat.* **30**: 51.

—— (1921) Irish Ichneumonidae and Braconidae in 1920. *Ir. Nat.* **30**: 104-107. (Hym., Lep.)

—— (1922) Diptera and Hymenoptera at Poyntzpass in 1921. *Ir. Nat.* **31**: 66-70.

—— (1927) Some Irish Ichneumonidae. *Entomologist's mon. Mag.* **63**: 157-161.

—— (1929) Irish Ichneumonidae. *Entomologist's mon. Mag.* **65**: 134-137.

—— (1930) Irish Ichneumonidae in 1929. *Entomologist's mon. Mag.* **66**: 155-158.

—— (1931) Ichneumonidae at Rostrevor in 1930. *Entomologist's mon. Mag.* **67**: 53-54.

—— (1931) Ichneumonidae at Rostrevor: a correction. *Entomologist's mon. Mag.* **67**: 94.

—— (1931) Hymenoptera at Greencastle, Co. Down, in August, 1930. *Entomologist's mon. Mag.* **67**: 137-141.

Jonaitis, V. and Rimðaitë, J. (2000) Fauna of microleptine and oxytorine ichneumonids (Hymenoptera, Ichneumonidae) in Lithuania and some neighbouring territories. *Acta Zoologica Lituanica* **10**: 70-94. (*Megastylus cruentator*, *Proclitus paganus*, *P. praetor*)

Jussila, R. (1999) Additions to the revisions of the genus *Stilpnus* (Hymenoptera, Ichneumonidae) of the Palaearctic Region. I. *Entomologica Fennica* **10**: 107-112. (*Stilpnus crassicornis* Thomson)

—— (2001) Additions to the revision of the genus *Atractodes* (Hymenoptera: Ichneumonidae) of the Palaearctic Region. III. *Entomologica Fennica* **12**: 193-216. (*A. alpestris*, *A. arator*, *A. fumatus*, *A. pauxillus*, *A. pusillus*, *A. angustipennis*, *A. croceicornis*, *A. cryptobius*, *A. exilis*, *A. helveticus*)

—— (2001) Pionini species (Hymenoptera, Ichneumonidae, Ctenopelmatinae) new to Finland. *Entomologica Fennica* **12**: 119-120. (*Lethades cingulator*)

Kane, W. F. de V. (1895) New Irish ichneumons. *Ir. Nat.* **4**: 319.

Kasparyan, D. R. and Shaw, M. R. (2008) British and European *Phytodietus* Gravenhorst (Hymenoptera: Ichneumonidae, Tryphoninae) in the National Museums of Scotland, with a key to European species of the subgenus *Neuchorus* Uchida and descriptions of three new species. *Entomologist's Gazette* **59**: 184-198.

—— (2009) A new species of *Hadrodactylus* Foerster (Hymenoptera: Ichneumonidae, Ctenopelmatinae, Euryproctini) from Britain and mainland Europe, with a review of material of the genus in the National Museums of Scotland. *Entomologist's Gazette* **60**: 251-258. (*H. indefessus*)

Keane, M., McCarthy, R. and Hogan, J. (1989) Forest health surveys in Ireland: 1987 and 1988 results. *Irish Forestry* **46**: 59-62. (Hym.: *Neodiprion sertifer*)

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

Kerrich, G. J. (1935) Notes on Ichneumonidae (Hym.) new to or rare in Britain; with a brief review of British lists published since 1915. *Transactions of the Society of British Entomology* **2**: 33-46. (includes a list of all Johnson's papers)

—— (1949) Taxonomic and distributional notes on British Diplazoninae (Hym., Ichneumonidae). *Journal of the Society for British Entomology* **3**: 67-83.

—— (1967) On the classification of the Anagyrine Encyrtidae, with a revision of some of the genera (Hymenoptera: Chalcidoidea). *Bulletin of the British Museum of Natural History* (Entomology) **20**: 141-250.

Kerrich, G. J. and Graham, M. W. R. de V. (1957) Systematic notes on British and Swedish Cleonymidae, with description of a new genus (Hym., Chalcidoidea). *Transactions of the Society of British Entomology* **12**: 265-311.

Khalaim, A. I. (2004) A review of the Palaearctic species of the genera *Barycnemis* Först., *Epistathmus* Först. and *Spinolochus* Horstm. (Hymenoptera: Ichneumonidae, Tersilochinae). *Proceedings of the Russian Entomological Society, St. Petersburg* **75**: 46-63.

Kirk, A. A. (1975) The distribution and ecology of woodwasps (Hym., Siricidae) and their parasitoid, *Rhyssa persuasoria* (L.) (Hym., Ichneumonidae), in Ireland. *Entomologist's mon. Mag.* **110** (1974): 215-221.

Knight, G. T. (2004) *Kaliofenusa pusilla* (Serville, 1823) (Hymenoptera, Tenthredinidae), species of leaf-mining sawfly new to Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 61-62.

Kolarov, J. (2009) New and little known Ichneumonidae (Hymenoptera) from Bulgaria and related regions. *Bulletin of the Natural History Museum* **2**: 131-136. (*Adelognathus stelfoxi*)

Konigsmann, E. (1959) Revision der paläarktischen Arten der Gattung *Dapsilarthra*. 1. Beitrag zur systematischen Bearbeitung der Alysiinae (Hymenoptera: Braconidae). *Beiträge zur Entomologie* **9**: 580-619.

Krombein, K. V. (1967) A. W. Stelfox Collection of Irish Hymenoptera donated to Smithsonian Institution. *Ir. Nat. J.* **15**: 298-299.

Kuhlmann, M., Almeida, E. A. B., Laurenne, N. and Quicke, D. L. J. (2009) Molecular phylogeny and historical biogeography of the bee genus *Colletes* Latreille, 1802 (Hymenoptera: Apiformes: Colletidae), based on mitochondrial CO1 and nuclear 28S sequence data. *Insect Systematics & Evolution* **40**: 29-318. (map)

Laide, L. (2015) a gall mystery. *Cecidology* **30**: 54-55, plate 1. (Hym.: cynipid?)

Latibari, H. L., Moravvej, G. and NaMaghi, H. S. (2016) Investigation on the mutualistic interactions of ant species and the aphids, *Cinara* spp. (Hemiptera: Aphididae) on *Pinus mugo* trees in urban green space of Mashhad, Razavi Khorasan, Iran. *Entomofauna* **36**: 401-412. (*Lasius alienus*)

Lavery, J. W. (1991) Insects on birch. *Bulletin of the Amateur Entomologists' Society* **50**: 259-260. (Lep., Hym. (*Cimbex femoratus*))

Leclercq, J. (1967) Crabronini (Hymenoptera, Sphecidae) from the British Isles. *Entomologist's Gazette* **18**: 29-35.

Lecocq, T., Lhomme, P., Michez, D., Dellicour, S., Valterova, I. and Rasmont, P. (2011) Molecular and chemical characters to evaluate species status of two cuckoo bumblebees: *Bombus barbutellus* and *Bombus maxillosus* (Hymenoptera, Apidae, Bombini). *Systematic Entomology* **36**: 453-469.

Leech, J. H. (1891) *Sirex gigas* in Ireland. *Entomologist* **24**: 248.

Li, T., Sun, S.-P., Sheng, M.-L., Liu, J.-X. and Nhi Thi Pham, N. T. (2019) Taxonomic study of the genus *Townesia* Ozols (Hymenoptera, Ichneumonidae, Pimplinae) with description of a new species from China and a key to world species. *Zookeys* **878**: 23-32.

Li, Y., He, J.-h. and Chen, X.-x. (2020) The subgenera *Glabrobracon* Fahringer, *Lucobracon* Fahringer and *Uncobracon* Papp of the genus *Bracon* Fabricius (Hymenoptera, Braconidae, Braconinae) in China, with the description of eleven new species. *Deutsche Entomologische Zeitschrift* **67**: 209-252.

Liston, A., Knight, G., Sheppard, D., Broad, G. and Livermore, L. (2014) Checklist of British and Irish Hymenoptera - Sawflies, 'Symphyta'. *Biodiversity Data Journal* **2**: e1168. doi: 10.3897/BDJ.2.e1168

Liston, A., Mutanen, M. and Viitasaari, M. (2019) On the taxonomy of *Heterarthrus* (Hymenoptera, Tenthredinidae), with a review of the West Palaearctic species. *Journal of Hymenoptera Research* **72**: 83-126. (*Heterarthrus fiora* Liston, sp. nov. described from *inter alia* an Irish specimen)

Liston, A. D. (1981) North British sawfly records (Hym., Tenthredinidae). *Bulletin of the Amateur Entomologists' Society* **40**: 58-67.

—— (1988) Noteworthy Symphyta (Hymenoptera) from afforested areas in Northern Ireland. *Ir. Nat. J.* **22**: 445-447.

Liston, A. D., Knight, G. T., Heibo, E., Bland, K. P., Barstad, T.-E., Blank, S. M., Boevé, J.-L., Fiedler, C., Grearson, K. J., Halstead, A., Jacobs, H.-J., Jansen, E., Lønnve, O., Prous, M., Robinson, J. and Taeger, A. (2010) On Scottish sawflies, with results of the 14th International Sawfly Workshop, in the southern Highlands, 2010 (Hymenoptera, Symphyta). *Beiträge zur Entomologie* **62**: 1-68. (*Amauronematus mimus* new to Ireland, *Pontania herbaceae*, *Pristiphora thalictri*, *Tenthredo moniliata*)

Liston, A. D. and O'Connor, J. P. (2005) Records of Irish sawflies (Hymenoptera: Symphyta) including eight species new to Ireland. *Ir. Nat. J.* **28**: 159-161.

Liston, A. D. and Sheppard, D. A. (2010) Check list of British and Irish Hymenoptera Symphyta. (I = Ireland) <http://www.nhm.ac.uk/resources-rx/files/checklist-of-british-and-irish sawflies-59046.pdf>.

Liston, A. D. and Speight, M. C. D. (1981) Records of some Irish sawflies (Hymenoptera: Symphyta) based on material in the Royal Scottish Museum, including 12 species new to Ireland. *Ir. Nat. J.* **20**: 317-321.

Little, B. and Jarman, A. (2011) Observations of *Andrena tarsata* Nylander and *Nomada obtusifons* Nylander in Central Scotland. *BWARS Newsletter* **Spring 2011**: 7-13.

Longfield, C. (1958) Attack on a human being by ichneumon. *Entomologist* **91**: 25.

Lozan, A., Belokobylskij, S., Achterberg, C. van and Monaghan, M. (2010) Diversity and distribution of Braconidae, a family of parasitoid wasps in the Central European peatbogs of South Bohemia, Czech Republic. 21pp. *Journal of Insect Science* **10**: 16 available online: insectsicence.org/10.16.

Luff, M. L. (1976) The biology of *Microctonus caudatus* (Thomson), a braconid parasite of the ground beetle *Harpalus rufipes* (Degeer). *Ecological Entomology* **1**: 111-116.

Lush, M. J. (2007) *Lasius platythorax* Seifert (Hymenoptera: Formicidae) in some early collections from Ireland. *Ir. Nat. J.* **28**: 520-521.

Lyle, G. T. (1916) Contributions to our knowledge of the British Braconidae. *Entomologist* **49**: 160-163.

—— (1927) Contributions to our knowledge of the British Braconidae. *Entomologist* **60**: 60-64.

—— (1929) Contributions to our knowledge of the British Braconidae. *Entomologist* **62**: 123-129. (no locality)

Ma, L. and Qiang, L. Q. (2009) The genus *Mimumesa* from China with descriptions of two new species (Hymenoptera: Apoidea: Crabronidae). *Entomologica Americana* **115**: 160-167. (*M. unicolor*)

Mackauer, M. (1968) Aphidiidae. *Hymenopterorum catalogus*. **3**.

Mackauer, M. and Starý, P. (1967) *Index of entomophagous insects*. Hym. Ichneumonoidea, world Aphidiidae. Le François, Paris. 195pp.

MacSwaine, J. B. S. (1889) *Sirex gigas* in Ireland. *Entomologist* **22**: 237.

Macve, W. E. (1945) On the finding of wasps' nests. *Ir. Nat. J.* **8**: 308.

Makings, P. (1961) *Himacerus mirmicoides* (Costa) in Cork city. *Ir. Nat. J.* **13**: 268-270. (*Lasius flavus*)

Malumphy, C. (2016) The status of Alluaud's Little Yellow Ant *Plagiolepis alluaudi* Emery (Hymenoptera: Formicidae) in Britain. *British Journal of Entomology and Natural History* **29**: 65-68. (Ireland)

Mantell, A. and Anderson, R. (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.

Marshall, T. A. (1885) A monograph of British Braconidae. Part I. *Transactions of the Entomological Society of London* **1885**: 1-280, plates i-vi.

—— (1887) A monograph of British Braconidae. Part II. *Transactions of the Entomological Society of London* **1887**: 51-131, plate v.

—— (1889) A monograph of British Braconidae. Part III. *Transactions of the Entomological Society of London* **1889**: 149-211, plates x-xi.

—— (1891) A monograph of British Braconidae. Part IV. *Transactions of the Entomological Society of London* **1891**: 7-61, plate ii.

—— (1894) A monograph of British Braconidae. Part V. *Transactions of the Entomological Society of London* **1894**: 497-534, plates xi-xii.

—— (1895) A monograph of British Braconidae. Part VI. *Transactions of the Entomological Society of London* **1895**: 363-398, plate vii.

—— (1897) A monograph of British Braconidae. Part VII. *Transactions of the Entomological Society of London* **1897**: 1-31, plate I.

Marshall, T. A. (1899) A monograph of British Braconidae. Part VIII. *Transactions of the Entomological Society of London* **1899**: 1-79, plate I.

Matthews, M. J. (1986) The British species of *Gonatocerus* Nees (Hymenoptera: Mymaridae), egg parasitoids of Homoptera. *Systematic Entomology* **11**: 213-229.

McAree, D. T. and MacKenzie, R. F. (1993) Guarding against potential threats to Irish forests. Pp 83-94. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

McClean, G. (1944) Observations on a spider parasite. *Ir. Nat. J.* **8**: 205-207.

McClenaghan, I. (1979) *Polistes omissus* Weyrauch (Hymenoptera: Vespidae) in Bangor, Co Down: a species new to British list. *Ir. Nat. J.* **19**: 448.

McCormack, S. and Broad, G. (2011) Records of ichneumon wasps (Hymenoptera: Ichneumonidae) including five species new to Ireland. *Ir. Nat. J.* **31** (2010): 58.

McCormack, S. and Purvis, G. (2010) *Pseudococcobius obenbergeri* (Novickij) (Hymenoptera: Encyrtidae) new to Ireland. *Ir. Nat. J.* **30** (2009): 142.

—— (2010) *Cothonaspis longula* Nordlander (Hymenoptera: Figitidae) new to Ireland from Kildare (H19). *Ir. Nat. J.* **30** (2009): 141.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork.

McMahon, B. J., Anderson, A., Carnus, T., Helden, A. J., Kelly-Quinn, M., Maki, A., Sheridan, H. and Purvis, G. (2012) Different bioindicators measured at different spatial scales vary in their response to agricultural intensity. *Ecological Indicators* **18**: 676–683.

McMullan, J. B. and Brown, M. J. F. (2005) Brood pupation temperature affects the susceptibility of honeybees (*Apis mellifera* L.) to infestation by tracheal mites (*Acarapis woodi*). *Apidologie* **36**: 97-105.

—— (2006) The role of autogrooming in the differential susceptibility to tracheal mite (*Acarapis woodi*) infestation of honeybees (*Apis mellifera*) held at both normal and reduced temperatures during pupation. *Apidologie* **37**: 471-479.

—— (2006) The influence of small-cell brood combs on the morphometry of honeybees (*Apis mellifera*). *Apidologie* **37**: 665-672.

McMullan, J. B., D'ettorre, P. and Brown, M. J. F. (2010) Chemical cues in the host-seeking behaviour of tracheal mites (*Acarapis woodi*) in honey bees (*Apis mellifera mellifera*). *Apidologie* **41**: 568-578.

McNeill, M. R., Proffitt, J. R., Gerard, P. J. and Goldson, S. L. (2006) Collections of *Microctonus aethiopoides* Loan (Hymenoptera: Braconidae) from Ireland. *New Zealand Plant Protection* **59**: 290-296.

Mikó, I., Masner, L. and and Deans, A. R. (2010) World revision of *Xenomerus* Walker (Hymenoptera: Platygastroidea, Platygastridae). *Zootaxa* **2708**: 1-73.

Miles, H. W. (1936) A revision of the British species of *Hoplocampa* Hartig. (Hymenoptera; Symphyta). *Entomologist's mon. Mag.* **72**: 58-62.

Minchin, D., Speight, M. C. D. and O'Connor, J. P. (1999) Observations on *Metoecus paradoxus* (L.) (Coleoptera: Rhipiphoridae) in Ireland, including a key to females of Irish *Vespula* and *Dolichovespula* species (Hymenoptera: Vespidae). *Ir. Nat. J.* **26** (1998): 117-120.

Mineo, G. and O'Connor, J. P. (2009) A new species of *Xenomerus* Walker (Hym., Scelionidae) from Ireland. *Entomologist's mon. Mag.* **145**: 97-100.

Mineo, G., O'Connor, J. P. and Ashe, P. (2010) Observations on *Thoron metallicum* and *Teleas medon* (Hymenoptera: Platygastroidea, Scelionidae) in the Haliday collection, National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **34**: 139-149.

—— (2011) Records of Irish scelionid wasps (Hymenoptera: Platygastroidea, Scelionidae) including notes on the genus *Verrucosicephalia* Szabò. *Ir. Nat. J.* **31** (2010): 113-117.

—— (2011) Records of European *Xenomerus* Walker including a redescription of *X. ergenna* Walker (Hymenoptera, Platygastroidea: Scelionidae). *Frustula Entomologica* New Series **32** (2009): 139-149.

Mitroiu, M.-D. (2004) Pteromalidae (Hymenoptera: Chalcidoidea) new to Romania. *Analele Ştiinţifice ale Universităţii "AI. I. Cuza" Iaşi, s. Biologie animală* **50**: 85-88.

Mitchell, R. (2019) *Thaumatogelis audax* (Olivier) (Hymenoptera, Ichneumonidae) presence in Ireland confirmed. *Ir. Nat. J.* **36**: 151.

Moffat, C. B. (1896) *Formica rufa*, L., in Co. Wexford. *Ir. Nat.* **5**: 143-144.

—— (1899) *Vespa rufa* and other wasps in Co. Wexford. *Ir. Nat.* **8**: 208.

—— (1900) Late wasps' nests. *Ir. Nat.* **9**: 47.

—— (1900) *Orobanche major* fertilized by wasps. *Ir. Nat.* **9**: 181.

—— (1905) *Vespa austriaca* in Co. Wexford. *Ir. Nat.* **14**: 182.

—— (1906) The struggle for existence. *Ir. Nat.* **15**: 95-106.

—— (1913) Bees and flowers. *Ir. Nat.* **22**: 65-74.

—— (1915) Bees and colour selection. *Ir. Nat.* **24**: 171-172.

—— (1917) *Psithyrus rupestris* in Co. Dublin. *Ir. Nat.* **26**: 154.

—— (1920) *Psithyrus rupestris* in Co. Dublin. *Ir. Nat.* **29**: 133.

—— (1922) Two small parasitic Hymenoptera from Co. Wexford. *Ir. Nat.* **31**: 55.

—— (1923) The study of the common wild flowers: a plea for closer investigation. *Ir. Nat.* **32**: 21-27. (bees)

Mohammadi-Khoramabadi, A., Hesami, A. and Shafiei, S. (2016) A contribution to the knowledge of the fauna of Ichneumonidae in Rafsanjan county of Kerman province, Iran. *Entomofauna* **36**: 453-468. (*Compoletis rapax*, *Diadegma semiclausom*, *D. majale*, *D. armillatum*, *Homotropus signatus*, *Enizemum ornatum*, *Mesochorus pictilis*, *Picrostigeus recticauda*, *Schizopyga podagrica*)

Moller, G. J. (1974) A list of Irish sawflies (Hymenoptera: Symphyta) in the Ulster Museum including a new Irish record and a note on a teratological specimen of *Hemichroa* Steph. *Ir. Nat. J.* **18**: 133-136.

Morgan, D. (1984) Cuckoo-wasps Hymenoptera, Chrysididae. *Handbooks for the Identification of British Insects* **6**(5): 1-37.

Morice, F. D. (1902) Hymenoptera collected by Col. Yerbury in S.W. Ireland in 1901. Chrysididae and Tenthredinidae. *Entomologist's mon. Mag.* **38**: 54.

Morley, C. (1902) Hymenoptera collected by Col. Yerbury in S.W. Ireland in 1901. Ichneumonidae (including a species new to our fauna). *Entomologist's mon. Mag.* **38**: 54-55.

Morley, C. (1903-1914) *Ichneumonologia britannica : the ichneumons of Great Britain : a descriptive account of the families, genera and species indigenous to the British Islands, together with notes as to classification, localities, habitats, hosts, etc.* 5 volumes. J. H. Keys, Plymouth.

—— (1905) On the Ichneumonidous Group *Tryphonides schizodonti* Holmgr. with descriptions of new species. *Transactions of the Entomological Society of London* **1905**: 419-438.

—— (1907) A few Irish Ichneumonidae. *Entomologist's mon. Mag.* **43**: 159-160.

—— (1907) On the Braconidous Cryptogastres. *Entomologist* **40**: 179-184.

—— (1907) Notes on Braconidae, V. *Entomologist* **40**: 251-254.

—— (1908) Notes on British Braconidae. - VI. *Entomologist* **41**: 148-150.

—— (1908) Notes on British Braconidae. - VII. *Entomologist* **41**: 286-290.

—— (1908) On some Irish Hymenoptera. *Entomologist's mon. Mag.* **44**: 276-277.

—— (1910) Irish Field Club Union. Rosapenna Conference. Hymenoptera. *Ir. Nat.* **19**: 185.

—— (1910) Field notes on British sawflies. *Entomologist* **43**: 281-285.

—— (1911) A few more Irish Ichneumonidae. *Entomologist's mon. Mag.* **47**: 19-20.

—— (1912) Clare Island Survey. 24. Hymenoptera. *Proceedings of the Royal Irish Academy* **31**(24): 18pp.

—— (1913) On the Ichneumonidae of the Dublin Museum. *Entomologist* **46**: 259-263.

—— (1913) Field notes on British sawflies. *Entomologist* **46**: 46-50.

—— (1914) A monograph of the Genus *Acroricnus*, Ratzeburg. Family Ichneumonidae: Subfamily Cryptinae: Tribe Cryptides. *Entomologist* **47**: 170-173.

—— (1916) British ichneumons: an addition and three confirmations. *Entomologist's mon. Mag.* **52**: 95-99.

—— (1916) Notes on Braconidae. - XI. *Entomologist* **49**: 109-112.

—— (1918) Notes on Braconidae. xii. - On the Liophroninae with description of a new British species. *Entomologist's mon. Mag.* **54**: 85-86.

—— (1921) British ichneumons: additions and confirmations. *Entomologist's mon. Mag.* **57**: 53-57.

—— (1922-1923) A synopsis of British Proctotrypidae (Oxyura). *Entomologist* **55**: 1-3, 82-83, 108-110, 132-135, 157-161, 182-186.

—— (1923) A synopsis of British Proctotrypidae (Oxyura). *Entomologist's mon. Mag.* **56**: 184-185, 228-232, 263-269.

—— (1924) Notes on Braconidae: XIII. - Dacnusides. *Entomologist* **57**: 193-198, 250-255.

—— (1931-1932) A synopsis of the British hymenopterous Family Cynipidae. *Entomologist* **64**: 183-186.

—— (1932) A synopsis of the British Hymenopterous Family Cynipidae. *Entomologist* **65**: 15-18, 39-40, 63-65, 89-91, 108-113.

—— (1933) Notes on Braconidae: XIV. - Alysiides. *Entomologist* **66**: 136-138, 158-161, 183-185.

—— (1936) Notes on Braconidae: XV. - Microgasterinae. *Entomologist* **69**: 90-94, 115-119, 140-142, 161-163, 209-215.

Morris, R. and Edwards, M. (2019) What has happened to our pollinators? *Antenna* **43**: 179-185. (Irish wasp distribution maps)

Murray, J. (1941) *Blacus strictus* Stelfox (Hym., Braconidae) in Cumberland. *Entomologist's mon. Mag.* **77**: 95.

Murray, T. (2015) Tracking our butterflies and bees. *Biodiversity Ireland* **Issue 11**: 6-8.

Murray, T. E., Fitzpatrick, Ú., Brown, M. J. F. and Paxton, R. J. (2008) Cryptic diversity in a widespread bumble bee complex revealed using mitochondrial DNA RFLPs. *Conservation Genetics* **9**: 653-666.

Murray, T. E., Fitzpatrick, Ú., Byrne, A., Fealy, R., Brown, M. J. F. and Paxton, R. J. (2012) Local-scale factors structure wild bee communities in protected areas. *Journal of Applied Ecology* **49**: 998-1008.

Murray, T. E., Stout, J. C. and Brown, M. J. F. (2005) Additions to the Irish Apoidea: *Andrena trimmerana* and *Osmia rufa* (Hymenoptera). *Ir. Nat. J.* **28**: 48-49.

Nash, R. (1972) *Crabro peltarius* Schreb (Hymenoptera: Crabronidae) in County Down. *Ir. Nat. J.* **17**: 281.

—— (1989) *Stenomalina illudens* (Walker) (Hymenoptera: Pteromalidae) new to Ireland. *Ir. Nat. J.* **23**: 73.

—— (1996) *Eurytoma brunniventris* Ratzburg (Hymenoptera: Eurytomidae) new to Ireland. *Ir. Nat. J.* **25**: 268.

Nash, R., Boston, M. and Nelson, B. (1990) The Hymenoptera Aculeata in the superfamilies Pompiloidea, Vespoidea, Sphecoidea and Apoidea of Murlough National Nature Reserve, Co Down. *Ir. Nat. J.* **23**: 247-255.

Nash, R. and O'Connor, J. P. (1990) Insects imported into Ireland 9. Records of Orthoptera, Dictyoptera, Homoptera and Hymenoptera including Roger's ant, *Hypoponera punctatissima* (Roger). *Ir. Nat. J.* **23**: 255-257.

—— (2011) Notes on the Irish entomologist Alexander Henry Haliday (1806-1870). *Bulletin of the Irish Biogeographical Society* **35**: 64-112.

National Biodiversity Data Centre (2020) Leafminers of Ireland. <https://maps.biodiversityireland.ie/Dataset/254> (Col., Dipt., Hym., Lep.)

—— (2020) Bees of Ireland. <https://maps.biodiversityireland.ie/Dataset/5>

—— (2020) Sawflies of Ireland. <https://maps.biodiversityireland.ie/Dataset/301>

Neave, S. A. (Johnson, W. F.) (1931) *Glypta nigrotrochanterata* Strobl. from Ireland. *Proceedings of the Entomological Society of London A* **6**: 52.

Nelson, B. (1990) Records of *Bombus monticola* Smith (Hymenoptera: Apidae) from the North of Ireland. *Ir. Nat. J.* **23**: 221-222.

—— (1995) Records of uncommon bumblebee species: *Bombus sylvanum* (L.) and *B. monticola* Smith, F. in Cos Clare and Londonderry. *Ir. Nat. J.* **25**: 116-117.

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland. (bees, Apoidea)

Nelson, B., Ronayne, C., Nash, R. and O'Connor, J. P. (2002) Additions and changes to the Irish aculeate Hymenoptera checklist. *Ir. Nat. J.* **26** (2001): 453-459.

Nelson, B. H. and Anderson, R. (1998) Land and freshwater invertebrates. Pp 85-88. *In* Kaznowska, S. (ed.) *Coastal directory of the British Isles.* Region 4/17. JNCC, Peterborough.

Nemkov, P. G. (2004) Contribution to the knowledge of the species of *Crossocerus* Lepeletier et Brullé (Hymenoptera: Crabronidae, Crabroninae) described by K. Tsuneki. *Proceedings of the Russian Entomological Society, St. Petersburg* **75**: 263-269. (*C. cetratus*, *C. nigritus*, *C. styrius*)

Newland, C. B. (l896) Egg parasites. *Entomologist's Rec. J. Var.* **8**: 135-136. (Hym., Lep.)

—— (l896) Ova attacked by ichneumons. *Entomologist's Rec. J. Var.* **8**: l83. (Hym., Lep.)

Nicholson, C. (1933) *Spilocryptus saturniae* Boie (Ichneumonidae) in Britain. *Entomologist* **66**: 109-111.

Nicholson, G. W. (1919) Occurrence of *Lamprinus saginatus* Gr. with ants. *Entomologist's mon. Mag.* **55**: 136-137.

Nienhuis, C. M., Dietzsch, C. and Stout, J. C. (2009) The impacts of an invasive alien plant and its removal on native bees. *Apidologie* **40**: 450-463.

Nixon, G. E. J. (1937) The British species of *Dacnusa* (Hym., fam. Braconidae). *Transactions of the Society of British Entomology* **4**: 1-88, plates i-xxii.

—— (1938) A preliminary revision of the British Proctotrupinae (Hym., Proctotrupoidea). *Transactions of the Royal Entomological Society of London* **87**: 431-465.

—— (1939) A new British *Opius* (Hym., Braconidae). *Entomologist's mon. Mag.* **75**: 80-82.

—— (1945) A revision of the European Dacnusini (Hym., Braconidae, Dacnusinae). *Entomologist's mon. Mag.* **80**: 88-96, 97-108, 145-151, 193-200, 249-255.

—— (1945) A revision of the European Dacnusini (Hym., Braconidae, Dacnusinae). *Entomologist's mon. Mag.* **81**: 193-204, 217-229, 249-255.

—— (1946) A revision of the European Dacnusini (Hym., Braconidae, Dacnusinae). *Entomologist's mon. Mag.* **82**: 279-300.

—— (1948) A revision of the European Dacnusini (Hym., Braconidae, Dacnusinae). *Entomologist's mon. Mag.* **84**: 207-224.

—— (1949) A revision of the European Dacnusini (Hym., Braconidae, Dacnusinae). *Entomologist's mon. Mag.* **85**: 289-298.

—— (1954) A revision of the European Dacnusini (Hym., Braconidae, Dacnusinae). *Entomologist's mon. Mag.* **90**: 257-290.

—— (1957) Hymenoptera Proctotrupoidea. Diapriidae, Subfamily Belytinae. *Handbooks for the Identification of British Insects* **8**(3dii): 1-107.

—— (1968) A revision of the Genus *Microgaster* Latreille (Hymenoptera: Braconidae). *Bulletin of the British Museum of Natural History* (Entomology) **22**: 31-72.

—— (1970) A revision of the N.W. European species of *Microplitis* Förster (Hymenoptera: Braconidae). *Bulletin of the British Museum of Natural History* (Entomology) **25**: 1-30.

—— (1980) Diapriidae (Diapriinae) Hymenoptera, Proctotrupoidea. *Handbooks for the Identification of British Insects* **8**(3di): 1-55.

—— (1986) A revision of the European Agathidinae (Hymenoptera: Braconidae). *Bulletin of the British Museum of Natural History* (Entomology) **52**: 183-242.

North, R. (2020) The Black Bog Ant (*Formica picea*): a species under threat. *Antenna* **44**: 167-172. (Colebrook, N. Ireland)

Notton, D. G. (1993) New species of *Trichopria* and *Diapria* from the British Isles (Hym., Proctotrupoidea, Diapriidae). *Entomologist's mon. Mag.* **129**: 139-149. (*D. luteipes* Notton)

—— (1995) B. P. Beirne microscope slides of Ichneumonidae at The Natural History Museum, London. *The Biology Curator* **No. 2**: 15-17.

—— (1999) A revision of the north-west European species of the *formosus* species group of *Spilomicrus* (Hymenoptera, Diapriidae). *Bulletin of the British Museum of Natural History* (Entomology) **68**: 129-144.

—— (2006) Genus-group taxa of Platygastroidea (Hymenoptera: Scelionidae & Platygastridae) new to Britain. *Entomologist's mon. Mag.* **142**: 189-206. (*Anteris asramanes* new to Ireland)

Notton, D. G. and O'Connor, J. P. (2004) Type specimens of Diapriinae in the Haliday Collection at the Natural History Museum, Dublin - National Museum of Ireland (Hym., Diapriidae). *Entomologist's mon. Mag.* **140**: 215-218.

Notton, D. G. and Shaw, M. R. (1998) A review of the Palaearctic Neorhacodinae (Hymenoptera, Ichneumonidae) with *Eremura* Kasparyan, 1995 new to the west Palaearctic. *Bulletin of the British Museum of Natural History* (Entomology) **67**: 209-218.

Noyes, J. S. (2001) *Interactive catalogue of world Chalcidoidea 2001.* Taxapad, Vancouver.

Noyes, J. S., Askew, R. R. and Broad, G. R. (2011) Checklist of British and Irish Eulophidae (Chalcidoidea). <http://www.nhm.ac.uk/resources-rx/files/family-eulophidae_final-95110. pdf>. (I = Ireland)

—— (2011) Checklist of British and Irish Eupelmidae (Chalcidoidea). <http://www.nhm.ac.uk/resources-rx/files/family-eupelmidae_final-95191. pdf>. (I = Ireland)

—— (2011) Checklist of British and Irish Ormyridae (Chalcidoidea). <http://www.nhm.ac.uk/resources-rx/files/ family_ormyridae_final-95193. pdf>.

Noyes, J. S. and Broad, G. R. (2011) Checklist of British and Irish Chalcididae (Chalcidoidea). (I = Ireland) <http://www.nhm.ac.uk/resources-rx/files/family-chalcididae_final-95109. pdf>.

Ó hUallacháin, D., Anderson, A., Fritch, R., McCormack, S., Sheridan, H. and Finn, J. A. (2013) Field margins: a comparison of establishment methods and effects on hymenopteran parasitoid communities. *Insect Conservation and Diversity* **7**: 289-307.

O'Brien, M., Spillane, C., Meade, C. and Mullins, E. (2008) An insight into the impact of arable farming on Irish biodiversity: a scarcity of studies hinders a rigorous assessment. *Biology and Environment: Proceedings of the Royal Irish Academy* **108**B: 97-108.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1994) *Cleonymus laticornis* Walker (Hym., Pteromalidae), new to Ireland. *Entomologist's mon. Mag.* **130**: 76.

O'Connor, J. P. (1995) A second Irish record of *Histeromerus mystacinus* Wesmael (Hym., Braconidae). *Entomologist's mon. Mag.* **131**: 162.

—— (1996) Further records of Irish Pteromalidae (Hymenoptera: Chalcidoidea), including ten species new to Ireland. *Ir. Nat. J.* **25**: 254-257.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2000) *Pteromalus elevatus* (Walker) (Hym., Pteromalidae), new to Ireland. *Entomologist's mon. Mag.* **136**: 54.

—— (2000) A second Irish locality for *Tetramorium lucayanum* Wheeler (Hym., Formicidae). *Entomologist's mon. Mag.* **136**: 86.

—— (2000) *Platygerrhus ductilis* (Walker) (Hym., Pteromalidae), new to Ireland. *Entomologist's mon. Mag.* **136**: 130.

—— (2000) *Eurytoma hypochoeridis* Claridge and *E. rosae* Nees (Hym., Eurytomidae) new to Ireland. *Entomologist's mon. Mag.* **136**: 198.

—— (2000) *Liposthenus latreillei* (Kieffer) (Hym.: Cynipidae) and *Torymus cingulatus* Nees (Hym.: Torymidae): insects new to Ireland. *Entomologist's Rec. J. Var.* **112**: 87-88.

—— (2000) *Melanagromyza dettmeri* Hering (Dip.: Agromyzidae) new to Ireland and a second Irish record of its parasitoid *Diglyphosema conjungens* Kieffer (Hym.: Eucoilidae). *Entomologist's Rec. J. Var.* **112**: 105-106.

—— (2001) *Hobbya stenonota* (Ratzeburg) (Hym., Pteromalidae) new to Ireland. *Entomologist's mon. Mag.* **137**: 58.

—— (2001) *Eurytoma mayri* Ashmead (Hym.: Eurytomidae) and *Torymus rubi* (Schrank) (Hym.: Torymidae): insects new to Ireland. *Entomologist's Rec. J. Var.* **113**: 69-70.

—— (2002) *Pteromalus puparum* (L.) (Hym.: Pteromalidae), a chalcid new to Ireland. *Entomologist's Rec. J. Var.* **114**: 111-112.

—— (2002) *Aulogymnus skianeuros* (Ratzeburg) (Hym., Eulophidae), new to Ireland. *Entomologist's mon. Mag.* **138**: 142.

—— (2002) *Xenodiplosis laeviusculi* (Rübsaamen) (Dipt.: Cecidomyiidae), a spangle gall inquiline new to Ireland. *Entomologist's Rec. J. Var.* **114**: 213-215.

—— (2002) Notes on *Pediobius lysis* (Walker) (Eulophidae) and *Eurytoma brunniventris* Ratzeburg (Eurytomidae) (Hym.) in Ireland. *Entomologist's mon. Mag.* **138**: 208.

—— (2002) *Alloxysta pedestis* (Curtis) (Hymenoptera: Charipidae) new to County Dublin. *Ir. Nat. J.* **27**: 122-123.

—— (2003) The subfamily Ichneutinae (Hymenoptera: Braconidae) new to Ireland. *Entomologist's Gazette* **54**: 33-34.

—— (2003) *Megastigmus aculeatus* (Swederus) (Hym., Torymidae), new to Ireland. *Entomologist's mon. Mag.* **139**: 124.

—— (2003) *Caenacis lauta* (Walker) (Hym., Pteromalidae), new to Ireland. *Entomologist's mon. Mag.* **139**: 124.

—— (2003) *Sympiesis gregori* Boucek (Hym., Eulophidae), new to Ireland. *Entomologist's mon. Mag.* **139**: 130.

—— (2003) A second Irish record of *Oedemopsis scabricula* (Gravenhorst) (Hymenoptera: Ichneumonidae). *Ir. Nat. J.* **27**: 278-279.

O'Connor, J. P. (2003) Notes on *Megastigmus dorsalis* (Fabricius) and *M. suspectus* Borries (Hymenoptera: Torymidae) in Ireland. *Ir. Nat. J.* **27**: 279-280.

—— (2003) Second Irish records of *Leptacis laodice* (Walker) and *L. tipulae* (Kirby) (Hymenoptera: Platygastridae). *Ir. Nat. J.* **27**: 280-281.

—— (2003) *Torymus impar* (Rondani) (Hym., Torymidae) new to Ireland. *Entomologist's mon. Mag.* **139**: 134.

—— (2003) *Lagynodes pallidus* (Boheman) and *L. thoracicus* Kieffer (Hym., Megaspilidae) in Ireland. *Entomologist's mon. Mag.* **139**: 138.

—— (2004) *Coelichneumon cyaniventris* (Wesmael) (Hym., Ichneumonidae) new to Ireland. *Entomologist's mon. Mag.* **140**: 26.

—— (2004) *Megastigmus strobilobius* Ratzeburg (Hym., Torymidae) confirmed as an Irish species. *Entomologist's mon. Mag.* **140**: 35.

—— (2004) A second Irish record of *Tetramesa hyalipennis* (Walker) (Hym., Eurytomidae). *Entomologist's mon. Mag.* **140**: 112.

—— (2004) A second Irish record of *Torymus ventralis* (Fonscolombe) (Hym., Torymidae). *Entomologist's mon. Mag.* **140**: 112. (see printer's errata slip for full article)

—— (2004) A review of the Irish gall-wasps (Hymenoptera: Cynipidae) with notes on the gall-midges (Diptera: Cecidomyiidae) and gall-mites (Acarina: Eriophyoidea). *Ir. Nat. J.* **27**: 335-343.

—— (2004) A checklist of the Irish Eucoilinae (Hymenoptera: Figitidae) including fourteen species new to Ireland. *Ir. Nat. J.* **27**: 382-386.

—— (2004) Records of some rare Irish pimplines (Hymenoptera: Ichneumonidae). *Ir. Nat. J.* **27**: 431-434.

—— (2004) A second Irish record of *Torymus chloromerus* (Walker) (Hymenoptera: Torymidae). *Ir. Nat. J.* **27**: 441.

—— (2004) A second Irish record of *Eurytoma mayri* Ashmead (Hymenoptera: Eurytomidae). *Ir. Nat. J.* **27**: 441.

—— (2004) *Sinarachna pallipes* (Holmgren) and *Zatypota discolor* (Holmgren) (Hym., Ichneumonidae, Pimplinae) new to Ireland. *Entomologist's mon. Mag.* **140**: 296.

—— (2004) *Halticoptera laevigata* Thomson (Hym., Pteromalidae) new to Ireland. *Entomologist's mon. Mag.* **140**: 299.

—— (2004) *Eriophyes padi* (Nalepa) (Eriophyoidea) new to Ireland with notes on other galls. *Cecidology* **19**: 3-5.

—— (2005) *Pontania* (*Eupontania*) *gallarum* (Hartig) (Hym., Symphyta), a sawfly new to Ireland. *Entomologist's mon. Mag.* **141**: 150.

—— (2005) Some distribution records for Irish sawflies (Hymenoptera: Symphyta). *Bulletin of the Irish Biogeographical Society* **29**: 127-129.

—— (2005) A second Irish site for *Torymus varians* (Walker) (Hymenoptera: Torymidae). *Ir. Nat. J.* **28**: 172.

—— (2006) A second Irish record of *Copidosoma cervius* (Walker) (Hymenoptera: Encyrtidae). *Ir. Nat. J.* **28**: 221.

—— (2006) A second Irish record of *Baeus seminulum* Haliday (Hymenoptera: Scelionidae). *Ir. Nat. J.* **28**: 222.

O'Connor, J. P. (2007) *Ceraphron nigriceps* (Thomson) (Hym., Ceraphronidae) new to Ireland. *Entomologist's mon. Mag.* **143**: 96.

—— (2007) A review of the Ceraphronoidea (Hymenoptera) including two species new to Ireland. *Bulletin of the Irish Biogeographical Society* **31**: 44-47.

—— (2007) A third Irish record of *Encyrtus infidus* Rossi (Hymenoptera: Encyrtidae). *Ir. Nat. J.* **28**: 386.

—— (2008) *Torymus caudatus* Boheman, 1834 (Hym., Torymidae) new to Ireland. *Entomologist's mon. Mag.* **144**: 250.

—— (2008) *Platygaster* (*Triplatygaster*) *contorticornis* Ratzeburg, 1844 (Hym., Platygasteridae) new to Ireland. *Entomologist's mon. Mag.* **144**: 254.

—— (2008) *Torymus caudatus* Boheman, 1834 (Hym., Torymidae) new to Ireland. *Entomologist's mon. Mag.* **144**: 250.

—— (2008) *Platygaster* (*Triplatygaster*) *contorticornis* Ratzeburg, 1844 (Hym., Platygasteridae). *Entomologist's mon. Mag.* **144**: 254.

—— (2009) *Callirhytis bella* (Dettmer, 1930) (Hym., Cynipidae) new to Ireland. *Entomologist's mon. Mag.* **145**: 26.

—— (2009) *Pteromalus papaveris* Förster, 1841 (Hym., Pteromalidae) new to Ireland. *Entomologist's mon. Mag.* **145**: 34.

—— (2011) A review of the Irish inquiline Cynipidae (Hymenoptera). *Ir. Nat. J.* **31** (2010): 40-42.

—— (2012) *Acrodactyla carinator* (Aubert, 1965) new to Ireland and *Acrodactyla quadrisculpta* (Gravenhorst, 1820) (Hymenoptera: Ichneumonidae) confirmed as an Irish species. *Entomologist's mon. Mag.* **147** (2011): 222.

—— (2013) A second Irish record of *Tiphodytes gerriphagus* (Marchal) (Hymenoptera: Scelionidae). *Ir. Nat. J.* **32**: 71.

—— (2014) *Telenomus heliodorus* Mineo (Hymenoptera, Platygastroidea, Scelionidae) new to Ireland. *Ir. Nat. J.* **33**: 67-68.

—— (2014) *Trimorus varicornis* (Walker, 1836) (Hymenoptera: Platygastridae, Teleasinae), new to Clare Island, Co. Mayo. *Ir. Nat. J.* **33**: 137-138.

—— (2016) A second Irish record of *Liposthenes glechomae* (Hymenoptera: Cynipidae) with the associated parasitoid *Torymus cingulatus* (Hymenoptera: Torymidae) from County Wexford. *Cecidology* **31**: 94-95.

—— (2020) Platygastridae (Hymenoptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/302>

O'Connor, J. P. and Ashe, P. (1992) A provisional list of the Irish Diapriinae (Hymenoptera: Diapriidae). *Bulletin of the Irish Biogeographical Society* **15**: 68-90.

—— (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

—— (2007) Contributions towards a checklist of insects feeding on Irish trees. Part 1: Hymenoptera, Lepidoptera and Orthoptera. *Bulletin of the Irish Biogeographical Society* **31**: 197-267.

O'Connor, J. P., Ashe, P. and Mineo, G. (2011) *Tiphodytes gerriphagus* (Marchal) (Hymenoptera, Scelionidae), a swimming wasp new to Ireland. *Ir. Nat. J.* **31** (2010): 43-44.

O'Connor, J. P., Ashe, P., O'Connor, M. A. and Wistow, S. (1995) *Andricus nudus* (Hym.: Cynipidae) and *Taxomyia taxa* (Dipt.: Cecidomyiidae): insects new to Ireland. *Entomologist's Rec. J. Var.* **107**: 105-106.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Baur, H. (2002) *Stictomischus groschkei* Delucchi (Hym., Pteromalidae), new to Ireland. *Entomologist's mon. Mag.* **138**: 62.

O'Connor, J. P. and Bond, K. G. M. (1996) *Diastrophus rubi* (Bouché) (Hymenoptera: Cynipidae), a gall wasp new to Ireland. *Ir. Nat. J.* **25**: 190.

O'Connor, J. P., Boston, M. R. and Nash, R. (2003) Notes on the Irish Anomaloninae (Hymenoptera: Ichneumonidae) including seven species new to Ireland. *Ir. Nat. J.* **27**: 312-314.

O'Connor, J. P., Bowdrey, J. P., Redfern, M. and Higginbottom, T. (2008) Records of Irish galls (Fungi; Insecta: Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera; Acarina: Eriophyidae) including eight species new to Ireland and one deletion from the Irish list. *Bulletin of the Irish Biogeographical Society* **32**: 40-61.

O'Connor, J. P. and Buhl, P. N. (2016) A review of the Irish platygastrids (Hymenoptera: Platygastroidea, Platygastridae) including their known distributions. *Bulletin of the Irish Biogeographical Society* **40**: 43-115.

O'Connor, J. P. and Butler, F. T. (1992) Notes on some interesting Irish Pimplinae (Hym., Ichneumonidae). *Entomologist's mon. Mag.* **128**: 164.

O'Connor, J. P. and de Courcy Williams, M. (2005) A third Irish record of *Chalcis sispes* (L.) (Hymenoptera: Chalcididae). *Ir. Nat. J.* **28**: 173.

O'Connor, J. P., Fergusson, N. D. M. and Nash, R. (2003) A checklist of the Irish Figitidae excluding Charipinae and Eucoilinae (Hymenoptera). *British Journal of Entomology and Natural History* **16**: 229-232.

O'Connor, J. P. and Holmes, J. M. C. (1987) *Theocolax formiciformis* Westwood (Hymenoptera: Pteromalidae) confirmed as an Irish species. *Ir. Nat. J.* **22**: 365.

O'Connor, J. P. and Liston, A. D. (1994) *Pristiphora friesei* (Konow) (Hymenoptera: Symphyta), a sawfly new to the British Isles. *Entomologist's Gazette* **45**: 69-72.

O'Connor, J. P., Liston, A. D. and Speight, M. C. D. (1997) A review of the Irish sawflies (Hymenoptera: Symphyta) including a checklist of species. *Bulletin of the Irish Biogeographical Society* **20**: 2-99.

O'Connor, J. P. and and Mineo, G. (2006) Irish records of *Telenomus heydeni* Mayr and *T. othus* Haliday (Hym., Scelionidae). *Entomologist's mon. Mag.* **142**: 184.

—— (2007) *Telenomus nitidulus* (Thomson) and *Trissolcus flavipes* (Thomson) (Hym., Scelionidae) new to Ireland. *Entomologist's mon. Mag.* **143**: 238.

—— (2008) *Trimorus bacilliger* (Kieffer), *Trimorus sectigena* Kieffer and *Trimorus tuberculatus* (Kieffer) (Hym., Scelionidae) new to Ireland. *Entomologist's mon. Mag.* **144**: 30.

—— (2009) *Telenomus chloropus* (Thomson) new to Ireland with second Irish records of *T. nitidulus* (Thomson) and *Trissolcus flavipes* (Thomson) (Hym., Scelionidae). *Entomologist's mon. Mag.* **145**: 106.

O'Connor, J. P. and and Mineo, G. (2009) Notes on *Telenomus longulus* Kozlov and *T. laricis* Walker (Hym., Scelionidae). *Entomologist's mon. Mag.* **145**: 109.

—— (2013) *Telenomus laeviusculus* (Ratzeburg) and *Telenomus lopicida* Silvestri (Hymenoptera: Scelionidae) new to Ireland with records of other rare species. *Ir. Nat. J.* **32**: 49-52.

O'Connor, J. P. and Nash, R. (1982) Notes on the entomological collection of A. H. Haliday (1806-1870) in the National Museum of Ireland, with a recommendation for type designations. *Proceedings of the Royal Irish Academy* **82**B: 169-175, plates I-IV.

—— (1983) Insects imported into Ireland 5. Records of Orthoptera, Hemiptera, Hymenoptera and Coleoptera. *Ir. Nat. J.* **21**: 114-117.

—— (1986) Insects imported into Ireland 8. Records of Hemiptera, Coleoptera, Diptera and Lepidoptera. *Ir. Nat. J.* **22**: 104-107.

—— (1997) *Macroneura vesicularis* (Retzius) (Hym., Eupelmidae) new to Ireland. *Entomologist's mon. Mag.* **133**: 129.

—— (1997) A review of the Irish Charipidae (Hymenoptera) including nine species new to Ireland. *Ir. Nat. J.* **25**: 410-412.

—— (1998) Further Irish records of *Diastrophus rubi* (Bouché) (Hym., Cynipidae). *Entomologist's mon. Mag.* **134**: 4.

—— (1998) *Pygostolus multiarticulatus* (Ratzeburg) (Hym., Braconidae) new to Ireland. *Entomologist's mon. Mag.* **134**: 255.

—— (2001) Notes on the Irish *Megastigmus* (Hymenoptera: Torymidae) including two species new to Ireland. *British Journal of Entomology and Natural History* **13**: 202.

—— (2002) Notes on the Irish Torymidae (Hymenoptera) including eleven species new to Ireland. *Ir. Nat. J.* **26** (2001): 464-466.

O'Connor, J. P., Nash, R. and Achterberg, C. van (1999) A catalogue of the Irish Braconidae (Hymenoptera: Ichneumonoidea). *Occasional Publication of the Irish Biogeographical Society* **Number 4**: 123pp.

O'Connor, J. P., Nash, R. and Bouček, Z. (2000) A catalogue of the Irish Chalcidoidea (Hymenoptera). *Occasional Publication of the Irish Biogeographical Society* **Number 6**: 135pp.

O'Connor, J. P., Nash, R. and Broad, G. (2009) *An annotated checklist of the Irish Hymenoptera.* The Irish Biogeographical Society in association with the National Museum of Ireland, Dublin. 211pp.

O'Connor, J. P., Nash, R. and Fitton, M. G. (2007) A catalogue of the Irish Ichneumonidae (Hymenoptera: Ichneumonoidea). *Occasional Publication of the Irish Biogeographical Society* **Number 10**: 310pp.

O'Connor, J. P., Nash, R., Notton, D. G. and Fergusson, N. D. M. (2004) A catalogue of the Irish Platygastroidea and Proctotrupoidea (Hymenoptera). *Occasional Publication of the Irish Biogeographical Society* **Number 7**: 110pp.

O'Connor, J. P. and Notton, D. G. (2013) A review of the Irish scelionids (Hymenoptera: Platygastroidea, Platygastridae) including four species new to Ireland. *Bulletin of the Irish Biogeographical Society* **37**: 20-44.

O'Connor, J. P. and O'Connor, M. A. (1983) *Calameuta pallipes* (Klug) (Symphyta: Cephidae), a species and a family of sawfly new to Ireland. *Entomologist's Rec. J. Var.* **95**: 111-112.

—— (1984) The fir seed chalcid, *Megastigmus pinus* Parfitt (Hym., Torymidae), new to Ireland. *Entomologist's mon. Mag.* **120**: 102.

—— (1993) *Andricus lignicola* (Hartig) and *A. quercusramuli* (L.) (Hymenoptera: Cynipidae), two gall wasps new to Ireland. *Entomologist's Gazette* **44**: 135-136.

—— (1993) *Neuroterus aprilinus* (Giraud) (Hymenoptera: Cynipidae) new to Ireland. *Cecidology* **8**: 78-79.

—— (2016) The cauliflower ash gall of *Aceria fraxinivora* (Acari: Eriophyoidea) new to Northern Ireland. *Cecidology* **31**: 13-14. (Dipt., Hym.)

O'Connor, J. P., O'Connor, M. A. and Achterberg, C. van (1991) Some records of Irish Braconidae (Hymenoptera) including seven species new to Ireland. *Ir. Nat. J.* **23**: 451-454.

O'Connor, J. P., O'Connor, M. A. and Graham, M. W. R. de V. (1989) Some records of Irish Pteromalidae (Hymenoptera: Chalcidoidea) including five species new to Ireland. *Ir. Nat. J.* **23**: 69-71.

O'Connor, J. P., O'Connor, M. A. and Wistow, S. (1993) Some records of Irish Cynipidae (Hymenoptera) including ten species new to Ireland. *Ir. Nat. J.* **24**: 321-325.

O'Connor, J. P., O'Connor, M. A., Wistow, S. and Ashe, P. (1993) Notes on the distribution of *Andricus kollari* (Hartig) (Hymenoptera: Cynipidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **16**: 57-61.

—— (1993) Notes on *Andricus lignicola* (Hartig) (Hymenoptera: Cynipidae) in Ireland. *Entomologist's Rec. J. Var.* **105**: 251-253.

—— (1995) Further records of Irish Cynipidae (Hymenoptera) including twenty-eight species new to Ireland. *Ir. Nat. J.* **25**: 9-13.

O'Connor, J. P. and Ronayne, C. (2002) Irish records of *Holepyris sylvanidis* (Brèthes) and *Plastanoxus munroi* Richards (Hym., Bethylidae). *Entomologist's mon. Mag.* **138**: 62.

—— (2003) *Oebalia minuta* (Diptera) new to Ireland and second Irish records of *Pteromalus apum* and *Torymus armatus* (Hymenoptera). *Ir. Nat. J.* **27**: 229-231.

O'Connor, J. P., Schönrogge, K., Ashe, P., Crawley, M. J., O'Connor, M. A., Walker, P. and Wistow, S. (1995) The distribution of gall-causing cynipids (Hymenoptera) on oak (*Quercus*) in Ireland. *Bulletin of the Irish Biogeographical Society* **18**: 37-65.

O'Connor, J. P. and Shaw, M. R. (2004) *Afrephialtes cicatricosa* (Ratzeburg) (Hymenoptera: Ichneumonidae, Pimplinae), an unexpected addition to the Irish fauna. *Entomologist's Gazette* **55**: 119-120.

O'Connor, J. P. and Speight, M. C. D. (1987) *Macrosiphum albifrons*, *Dictenidia bimaculata*, *Callaspidia defonscolombei* and *Xyalaspis petiolata*: insects new to Ireland. *Ir. Nat. J.* **22**: 199-201.

O'Connor, J. P. and Thuróczy, C. (2009) Records of Irish Chalcidoidea (Hymenoptera) including *Torymus hederae* (Walker, 1833) and *Torymus nitidulus* (Walker, 1833) new to Ireland. *Bulletin of the Irish Biogeographical Society* **33**: 3-13.

O'Connor, M. (1927) Tree-wasps' nest inhabited by spider. *Ir. Nat. J.* **1**: 276.

O'Donnell, M. (2018) Tree Bumblebee (*Bombus hypnorum*) (Hymenoptera, Apidae): a bumblebee new to Ireland. *Ir. Nat. J.* **36**: 50-51.

O'Flanagan, L. P. (1967) A note of *Formica rufa* (Wood Ant). *Irish Forestry* **24**: 86-88.

O'Flanagan, L. P. and Moloney, J. M. (1973) *Formica lugubris* - a new county record. *Irish Forestry* **30**: 94.

O'Flynn, C. (2015) Have you see an alien? *Biodiversity Ireland* **Issue 11**: 10-11. (Col.: Harlequin Ladybird; Hym.: Asian Hornet)

—— (2016) EU embargoes 37 invasive species. *Biodiversity Ireland* **Issue 14**: 14. (Asian Hornet)

O'Grady, A., Schmidt, O. and Breen, J. (2010) Trophic relationships of grassland ants based on stable isotopes. *Pedobiologia* **53**: 221-225.

O'Meara, M. (2008) A new Irish insect - the carpenter bee. *Biodiversity Ireland* **Issue 1**: 9. (*Xylocopa violacea*)

O'Rourke, F. (1940) Dates for swarming ants, 1939. *Ir. Nat. J.* **7**: 249.

—— (1940) Notes on the ant fauna of Howth, County Dublin. *Ir. Nat. J.* **7**: 303.

—— (1943) Early appearance of Bumble Bees. *Ir. Nat. J.* **8**: 111.

—— (1945) A further extension of the range of *Myrmica schenki*, Emery. *Entomologist's Rec. J. Var.* **57**: 85-86.

—— (1945) Method used by wasps of the Genus *Vespa* in killing their prey. *Ir. Nat. J.* **8**: 238-241.

—— (1946) The occurrence of three mermithogynes at Roundstone, Connemara, with notes on the ants of the area. *Entomologist's Rec. J. Var.* **58**: 65-70.

—— (1946) The discovery of the rare ant, *Stenamma westwoodi* Westwood, in Co Wicklow. *Ir. Nat. J.* **8**: 413-414.

—— (1947) The rate of progression in ants. *Entomologist's Rec. J. Var.* **59**: 2-3.

—— (1948) A *Lasius mixtus* Nyl. (Hym., Formicidae) pterergate from Co. Wicklow. *Entomologist's mon. Mag.* **84**: 8-9.

—— (1949) Some ant swarming records from Co. Dublin. *Entomologist's Rec. J. Var.* **61**: 63-65.

—— (1950) The distribution and general ecology of the Irish Formicidae. *Proceedings of the Royal Irish Academy* **52**B: 383-410.

—— (1950) The isopod *Platyarthrus hoffmanseggi*, Brandt, and its relation to ants. *Entomologist's Rec. J. Var.* **62**: 28-30, plate I.

—— (1950) Formic acid production among the Formicidae. *Annals of the Entomological Society of America* **43**: 437-443.

—— (1950) Ants as beneficial insects. Pp 941-945. *In Transactions of the 8th International Entomological Congress, Stockholm, 1948*.

—— (1952) A preliminary ecological classification of ant communities in Ireland. *Entomologist's Gazette* **3**: 69-72.

—— (1954) The Brown Trout (*Salmo trutta* L.) feeding on ants. *Entomologist's Gazette* **5**: 48-50.

—— (1955) *Bombus pratorum* in Co. Cork. *Ir. Nat. J.* **11**: 337-338.

—— (1955) The medical and veterinary importance of the Formicidae. *Insects Sociaux* (Paris) **29**: 107-118.

O'Rourke, F. (1956) The Bombidae of County Cork. *Ir. Nat. J.* **12**: 17-19.
—— (1957) *Bombus distinguendus* Mor, one of the rarer Irish Bumble bees. *Ir. Nat. J.* **12**: 187-189.
—— (1979) The social Hymenoptera of County Wexford. *Proceedings of the Royal Irish Academy* **79**B: 1-14.
Orledge, G. M. (2005) Ant notes. *BWARS Newsletter* **Spring 2005**: 11-12. (*Lasius platythorax*)
—— (2007) The occurrence of *Lasius platythorax* Seifert in Britain and Ireland. *BWARS Newsletter* **Autumn 2007**: 24-25.
Orr, H. L. (1909) Hymenoptera from County Antrim and Down. *Ir. Nat.* **18**: 25.
—— (1909) Hymenoptera in Ulster and Connaught. *Ir. Nat.* **18**: 242.
—— (1910) (*Vespa germanica*). *Proceedings of the Belfast Naturalists' Field Club* **6**: 401.
—— (1911) Hymenoptera from Ulster. *Ir. Nat.* **20**: 76.
Özbek, H. and Çalmaşur, Ö. (2010) Spotted ash looper, *Abraxas pantaria* (L.) (Lepidoptera: Geometridae), a new ash pest in Turkey. *Turkish Journal of Zoology* **34**: 351-358. (*Cotesia callimone*)
Pack-Beresford, D. R. (1899) Wasp notes. *Ir. Nat.* **8**: 209.
—— (1901) The male of *Vespa austriaca*. *Ir. Nat.* **10**: 195-196.
—— (1902) The nesting habits of *Vespa rufa*. *Ir. Nat.* **11**: 94-95.
—— (1902) *Vespa austriaca*. *Ir. Nat.* **11**: 220.
—— (1903) Notes on wasps. *Ir. Nat.* **12**: 15-17.
—— (1903) Hybernation of queen wasps. *Ir. Nat.* **12**: 167.
—— (1904) Another nest of *Vespa rufa-austriaca. Ir. Nat.* **13**: 242-243.
—— (1905) *Psithyrus campestris* in Co. Carlow. *Ir. Nat.* **14**: 247.
Pack-Beresford, H. D. (1931) Wasps in combat. *Ir. Nat. J.* **3**: 223-224.
Palmer, J. A. J. (1942) On the wasp *Sphex lutaria*. *Ir. Nat. J.* **8**: 25-27.
—— (1942) Persistent nest-building by wasps. *Ir. Nat. J.* **8**: 83.
Palmer J. A. J. and Stelfox, A. W. (1931) On the habits of *Sphex affinis* (*lutaria*) in Ireland. *Entomologist's mon. Mag.* **67**: 130-133.
Papp, J. (2003) Braconidae (Hymenoptera) from Greece, 5. *Notes fauniques de Gembloux* **53**: 21-54. (*Dinotrema divisum*, *D. semicompressum*)
—— (2003) Braconidae (Hymenoptera) from Korea, XXI. Species of fifteen subfamilies. *Acta Zoologica Academiae Scientiarum Hungaricae* **49**: 115- 152. (*Dacnusa glabrum*)
—— (2004) Braconidae (Hymenoptera) from Mongolia XV. Subfamily Alysiinae: Dacnusini. *Acta Zoologica Academiae Scientiarum Hungaricae* **50**: 245-269.
—— (2005) Braconidae (Hymenoptera) from Mongolia, XVI. Subfamilies Gnamptodontinae, Brachistinae, Euphorinae, Alysiinae. *Acta Zoologica Academiae Scientiarum Hungaricae* **51**: 221-251. (*Dinotrema vesparum*, *Chorebus ruficollis*, *Ch. rufimarginatus*, *Ch. anasellus*, *Ch. nobilis*)
—— (2007) Braconidae (Hymenoptera) from Greece, 6. *Notes fauniques de Gembloux* **60**: 99-127. (*Protodacnusa litoralis*, *Dolichogenidea impura*)
—— (2009) Contribution to the braconid fauna of the former Yugoslavia, V. Ten subfamilies (Hymenoptera, Braconidae). *Entomofauna* **30**: 1-36. (*Dinotrema pulviatum*, *Chorebus eros*)

Papp, J. (2009) Braconidae (Hymenoptera) from Mongolia, XVII. Eleven subfamilies. *Acta Zoologica Academiae Scientiarum Hungaricae* **55**: 139-173. (*Cotesia callimone*)

Pascual, X. P. (2010) *Bracónidos exodontos de España (Hymenoptera, Braconidae, Alysiinae).* Tesis Doctoral Salamanca, 10 de abril de 2010. University of Salamanca, Spain. (*Phaenocarpa livida*)

Patterson, R. (1905) *Sirex gigas* in the North. *Ir. Nat.* **14**: 198.

Paxton, R. (2005) Irish bee project - The conservation biology and genetics of Irish bees. *BWARS Newsletter* **Autumn 2005**: 7-8.

Paxton, R. J. (2007) The *Bombus lucorum* complex revisited using a molecular genetic approach: not one or two but three species across Ireland. *BWARS Newsletter* **Spring 2007**: 7-8.

Pentland, G. H. (1912) Notes on the increase and decrease of some mammals, birds and insects in the County of Louth during the last fifty years. *Ir. Nat.* **21**: 145-148.

—— (1919) A wasps' nest. *Ir. Nat.* **28**: 54-55.

Peris-Felipo, F. J., Stigenberg, J., Quicke, D. L. J. and Belokobylskij, S. A. (2020) Revision of *Neorthostigma* Belokobylskij, 1998 (Hymenoptera, Braconidae, Alysiinae) with description of a new species from Papua New Guinea. *Journal of Hymenoptera Research* **80**: 31-47.

Peris-Felipo, F. J., Yari, Z., Achterberg, C. van, Rakhshani, E. and Belokobylskij, S. A. (2016) Review of species of the genus *Adelurola* Strand, 1928, with a key to species (Hymenoptera, Braconidae, Alysiinae). *Zookeys* **566**: 13-30.

Perkins, J. F. (1941) A synopsis of the British Pimplini, with notes on the synonymy of the European species (Hymenoptera Ichneumonidae). *Transactions of the Royal Entomological Society of London* **91**: 637-659.

—— (1943) Notes on the British species of Adelognathini Roman, with descriptions of two new species (Hym. Ichneumonidae). *Transactions of the Royal Entomological Society of London* **93**: 95-114.

—— (1953) Notes on British Ichneumoninae with descriptions of new species. *Bulletin of the British Museum of Natural History* (Entomology) **3**: 103-176.

—— (1959) Hymenoptera: Ichneumonoidea: Part I, Ichneumonidae, keys to subfamilies and Ichneumoninae-1. *Handbooks for the Identification of British Insects* **7**(2ai): 1-116.

—— (1960) Hymenoptera: Ichneumonoidea: Ichneumonidae, subfamilies Ichneumoninae II, Alomyinae, Agriotypinae and Lycorininae. *Handbooks for the Identification of British Insects* **7**(2aii): 117-213.

—— (1976) Hymenoptera Superfamily Bethyloidea (excluding Chrysididae). *Handbooks for the Identification of British Insects* **6**(3a): 1-38

Perkins, R. C. L. (1916) *Andrena trimmerana* K, and its allies. *Entomologist's mon. Mag.* **52**: 13-15.

—— (1919) The British species of *Andrena* and *Nomada*. *Transactions of the Entomological Society of London* **1919**: 218-319.

—— (1921) *Andrena jacobi* n.n. for *A. trimmerana* auct. and a new Irish variety of this species. *Entomologist's mon. Mag.* **57**: 39.

Perkins, R. C. L. (1925) The British species of *Megachile*, with descriptions of some new varieties from Ireland, and of a species new to Britain in F. Smith's Collection. *Entomologist's mon. Mag.* **61**: 95-101.

—— (1929) Note on the black *Croesus* from Ireland. *Entomologist's mon. Mag.* **65**: 18-19.

—— (1930) A revision of the British species of *Dolerus* Jurine (Hymenoptera Phytophaga). *Entomologist's mon. Mag.* **66**: 235-248.

—— (1935) A note on some British species of *Halictus*. *Entomologist's mon. Mag.* **71**: 104-106.

Pesenko, Y. (2005) New data on the taxonomy and distribution of the Palaearctic halictids: genus *Halictus* Latreille (Hymenoptera: Halictidae). *Entomofauna* **26**: 313-348.

Phillips, C. B., Iline, I. I., Vink, C. J., Winder, L. M. and McNeill, M. R. (2006) Methods to distinguish between the *Microctonus aethiopoides* strains that parasitise *Sitona lepidus* and *Sitona discoideus*. *New Zealand Plant Protection* **59**: 297-303.

Phillips, R. A. (1921) Nests of the ant *Stenamma westwoodi*, discovered in Ireland. *Ir. Nat.* **30**: 125-127.

—— (1921) *Donisthorpea mixta* and *D. umbrata*, two ants new to Ireland. *Ir. Nat.* **30**: 147.

Pintureau, B. and Al-Nabhan, M. (2003) New data on the European species of three genera Scelionidae (Hymenoptera). *Zootaxa* **238**: 1-12. (*Gryon misellum*)

Pintureau, B. and Calvin, M. D. P. I. (1996) Review of the European species of *Mymar* Curtis (Hymenoptera: Mymaridae: Mymarini). *Entomologist* **115**: 114-123. (new: *Mymar pulchellum*)

Popovici, O. and Buhl, P. N. (2010) The West Palaearctic species of *Fidiobia* Ashmead, 1894 (Hymenoptera: Platygastroidea). *Journal of Natural History* **44**: 1131-1164. (*F. hispanica* sp. nov.)

Powell, W. (1980) *Toxares deltiger* (Haliday) (Hymenoptera: Aphidiidae) parasitising the cereal aphid, *Metopolophium dirhodum* (Walker) (Hemiptera: Aphididae), in southern England: a new host-parasitoid record. *Bulletin of Entomological Research* **70**: 407-409.

Power, E. F. and Stout, J. C. (2011) Organic dairy farming: impacts on insect flower interaction networks and pollination. *Journal of Applied Ecology* **48**: 561-569.

Praeger, R. L. (1893) The pine sawfly (*Lophyrus pini*) in the North of Ireland. *Ir. Nat.* **2**: 55.

—— (1893) *Sirex gigas* in the North of Ireland. *Ir. Nat.* **2**: 113.

—— (1898) A plague of ants. *Ir. Nat.* **7**: 254.

Prous, M., Kramp, K., Vikberg, V. and Liston, A. D. (2017) North-Western Palaearctic species of *Pristiphora* (Hymenoptera, Tenthredinidae). *Journal of Hymenoptera Research* **59**: 1-190. (*Nematus hibernicus* synonymised)

Prŷs-Jones, O. E. and Corbet, S. A. (1991) *Bumblebees*. Revised edition including distribution maps. Plates by A. J. Hopkins. *Naturalists' Handbooks* **6**. The Richmond Publishing Co. Ltd, Slough.

Purvis, G. (2009) Can cows and biodiversity mix? *Biodiversity Ireland* **Issue 4**: 16.

Quinlan, J. (1974) The nominal taxa described by R. B. Benson and their types, with a bibliography of his works (Hymenoptera). *Bulletin of the British Museum of Natural History* (Entomology) **30**: 215-265.

Quinlan, J. (1978) Hymenoptera Cynipoidea Eucoilidae. *Handbooks for the Identification of British Insects* **8**(lb): 1-58.

Quinlan, J. and Evenhuis, J. J. (1980) Status of the subfamily names Charipinae and Alloxystinae (Hymenoptera: Cynipidae). *Systematic Entomology* **5**: 427-430.

Quinlan, J. and Gauld, I. D. (1981) Symphyta (except Tenthredinidae) Hymenoptera. New edition. *Handbooks for the Identification of British Insects* **6**(2a): 1-67.

Rasmont, P. and Iserbyt, I. (2010) Atlas of the European bees: genus *Bombus*. *STEP Project, Atlas Hymenoptera, Mons, Gembloux.* <http://www.zoologie.umh.ac.be // hymenoptera/page.asp?ID=169>

Redfern, M. (2007) *Eupontania* on *Salix aurita* - a comparison with galls on *Salix caprea* and *Salix cinerea*. *Cecidology* **22**: 50-55.

—— (2009) *Eupontania* pea galls on the common sallows - a final (?) note. *Cecidology* **24**: 55-57. (unusual larvae in Burren)

Redfern, M. and Askew, R. R. (1992) *Plant galls. Naturalists' Handbooks* **17**. The Richmond Publishing Co. Ltd, Slough. (record of *Pontania collactanea* (Förster))

Redfern, M., Shirley, P. and Bloxham, M. (2011) *British plant galls.* Second edition. FSC. Occasional Publication **125**. iv + 432pp. (*Euura purpureae*, *E. weiffenbachii*, *Phyllocolpa carinifrons*, *Pontania proxima*, *P. triandrae*, *P. bridgmanii*, *Eupontania vesicator*, *E. herbaceae*, *E. pedunculi*, *E. viminalis*, *E. collactanea*, *E. arcticornis*)

Regan, E. (2009) *Irish butterflies and insects*. Appletree Press, Belfast.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reilly, E. (2008) An ever-closing gap? Modern ecological and palaeoecological contributions towards understanding the Irish post-glacial insect fauna. Pp 63-71. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reynolds, J. (1996) 32nd Aer Lingus Young Scientists' Exhibition. *Ir. Nat. J.* **25**: 229-230. (perfect queen bee)

Reynolds, S. C. P. and Reynolds, J. D. (2008) Knopper gall *Andricus quercuscalicis* (Burgsdorf) records on oaks in Co. Limerick, with observations on the artichoke gall *Andricus fecundator* (Hartig). *Ir. Nat. J.* **29**: 13-17.

Richards, O. W. (1928) A revision of the European bees allied to *Psithyrus quadricolor* Lepeletier (Hymenoptera: Bombidae). *Transactions of the Entomological Society of London* **76**: 345-365.

—— (1935) Geographical races of British Humble Bees. *Proceedings of the Royal Entomological Society of London A* **10**: 61.

—— (1935) Notes on the nomenclature of the Aculeate Hymenoptera, with special reference to British genera and species. *Transactions of the Royal Entomological Society of London* **83**: 143-176.

—— (1935) *Bombus muscorum* (Linnaeus) and *B. smithianus* White (Hym.). *Transactions of the Society of British Entomology* **2**: 73-85, plate v.

Richards, O. W. (1937) A study of the British species of *Epeolus* Latr. and their races, with a key to the species of *Colletes* (Hym., Apidae). *Transactions of the Society of British Entomology* **4**: 89-130.

—— (1939-1940) The British Bethylidae (S. L.) (Hymenoptera). *Transactions of the Royal Entomological Society of London* **89**: 185-344.

—— (1949) Parasitic Hymenoptera found in British houses, warehouses and ships: Ichneumonidae. *Proceedings of the Royal Entomological Society of London B* **18**: 19-35.

—— (1951) Endemic British races of Aculeate Hymenoptera. *Journal of the Society for British Entomology* **4**: 1-4.

—— (1957) A note on the Genus *Mirax* Hal. (Hym., Braconidae, Microgasterinae). *Entomologist* **90**: 120-122.

—— (1967) Some British species of *Leiophron* (Hymenoptera: Braconidae, Euphorinae), with the description of two new species. *Transactions of the Royal Entomological Society of London* **119**: 171-186.

—— (1980) Scolioidea, Vespoidea and Sphecoidea Hymenoptera, Aculeata. *Handbooks for the Identification of British Insects* **6**(3b): 1-118.

Richards, O. W. and Hamm, A. H. (1939) The biology of the British Pompilidae (Hymenoptera). *Transactions of the Society of British Entomology* **6**: 51-114.

Riedel, M. (2017) Die westpaläarktischen Arten der Gattung *Campoletis* Förster (Hymenoptera, Ichneumonidae, Campopleginae). *Spixiana* **40**: 95-137.

Robbins, J. M. (1938) Wasp versus dragonfly. *Ir. Nat. J.* **7**: 10-11.

Roberts, S. P. M. (1998) The status of social wasps (Hymenoptera: Vespidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **22**: 73-83.

Robinson, N. A. and Woodgate, J. N. (2005) A study of the wood ant *Formica lugubris* Zetterstedt (Hymenoptera: Formicidae) in Ashness Woods, Borrowdale, Cumbria, England in 2001 and 2003. *British Journal of Entomology and Natural History* **17**: 203-211. (Irish distribution)

Rokas, A., Atkinson, R. J., Nieves-Aldrey, J.-L., West, S. A. and Stone, G. N. (2002) The incidence and diversity of *Wolbachia* in gallwasps (Hymenoptera; Cynipidae) on oak. *Molecular Ecology* **11**: 1815-1829. (*Andricus quercuscalicis*)

Ronayne, C. (1995) *Tiphia minuta* vander Linden (Hymenoptera: Tiphiidae), an aculeate wasp new to Ireland. *Ir. Nat. J.* **25**: 117.

—— (1998) *Ectemnius cephalotes* (Olivier) (Hymenoptera: Sphecidae), an aculeate wasp new to Ireland. *Bulletin of the Irish Biogeographical Society* **22**: 97-101.

—— (2002) *Ammophila sabulosa* (Linnaeus, 1758) and *Bombus distinguendus* Morawitz, F., 1869 (Hymenoptera: Aculeata) on the Mullet Peninsula, Co. Mayo, Ireland. *Bulletin of the Irish Biogeographical Society* **26**: 138-142.

Ronayne, C. and O'Connor, J. P. (2003) Distributional records of some Aculeata (Hymenoptera) collected in Ireland from 1980-2002. *Bulletin of the Irish Biogeographical Society* **27**: 227-254.

—— (2003) A second Irish locality for *Tiphia minuta* Vander Linden (Hym., Tiphiidae). *Entomologist's mon. Mag.* **139**: 231.

Ronayne, C. and O'Connor, J. P. (2006) Further distributional records of Irish Aculeata (Hymenoptera), and a species list for Ireland. *Bulletin of the Irish Biogeographical Society* **30**: 28-91.

Ronayne, C. and O'Meara, M. (2008) The carpenter bee (*Xylocopa violacea* (Linnaeus, 1758)) (Hymenoptera: Anthophoridae), new to Ireland. *Ir. Nat. J.* **29**: 46-47.

Roper, I. M. (1929) Some plants of north Ireland. *Ir. Nat. J.* **2**: 166-169. (*Pontania salicis*, *Rhodites eglanteriae*)

Roques, A. and Skrzypczńsa, M. (2003) Seed-infesting chalcids of the genus *Megastigmus* Dalman, 1820 (Hymenoptera: Torymidae) native and introduced to the west Palearctic region: taxonomy, host specificity and distribution. *Journal of Natural History* **37**: 127-238.

Russo, L., Memmott, J., Montoya, D., Shea, K. and Buckley, Y. M. (2014) Patterns of introduced species interactions affect multiple aspects of network structure in plant-pollinator communities. *Ecology* **95**: 2953-2963.

Rutrecht, S. T. and Brown, M. J. F. (2008) Within colony dynamics of *Nosema bombi* infections: disease establishment, epidemiology and potential vertical transmission. *Apidologie* **39**: 504-514.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Sakaltaş, E. and Gençer, L. (2005) Contribution to the knowledge of the Tetrastichinae (Hymenoptera: Eulophidae) from Ankara, Turkey, with some new records. *Acta Phytopathologica et Entomologica Hungarica* **40**: 383-390.

Sakaltaş, E. and Gençer, R. S. (2004) 3rd Insect and Invertebrate Group annual meeting March 14th 2004. *Cecidology* **19**: 45-50. (*Andricus quercuscalicis*)

Salisbury, A. and Broad, G. (2011) The hyperparasitoid *Mesochorus lilioceriphilus* (Hymenoptera: Ichneumonidae), an addition to the parasitoid complex of the lily beetle in Britain. *British Journal of Entomology and Natural History* **24**: 95-99. (number of *Mesochorus* species in Britain and Ireland)

Samin, N., Shojai, M., Ghahari, H. and Kocak, E. (2010) A contribution to the scelionid wasps (Hymenoptera: Platygastroidea: Scelionidae), egg parasitoids of Pentatomidae (Heteroptera) in Tehran Province, Iran. *Efflatounia* **10**: 7-14. (*Telenomus chloropus*)

Santorum, V. and Breen, J. (2005) Bumblebee diversity on Irish farmland. *Tearmann: Irish Journal of Agri-environmental Research* **4**: 79-90.

Saunders, E. (1896) *Bombus smithianus*, White. *Entomologist's mon. Mag.* **32**: 275-277.

—— (1896) *The Hymenoptera Aculeata of the British Islands: a descriptive account of the families, genera, and species indigenous to Great Britain and Ireland, with notes as to habits, localities, habitats*. L. Reeve & Co., London.

—— (1902) Hymenoptera collected by Col. Yerbury in S.W. Ireland in 1901. Aculeata. *Entomologist's mon. Mag.* **38**: 50-54.

—— (1902) Wasps in Ireland and Berkshire: a specific comparison. *Entomologist's mon. Mag.* **38**: 223-224.

—— (1906) Additions and corrections to the List of British Hymenoptera since 1896. *Entomologist's mon. Mag.* **42**: 172-177.

Saunders, E., Morice, F. D. and Morley, C. (1903) Three weeks in South Kerry, Hymenoptera. *Ir. Nat.* **12**: 68.

Sawoniewicz, J. (1980) Revision of European species of the genus *Bathythrix* Förster (Hym., Ichneumonidae). *Annales Zoologici* **35**: 319-365. (*B. prominens*, *B. rugulosa*)

Scannell, M. J. P. (1981) Concerning bees and adverse forces at work today. *Ir. Nat. J.* **20**: 255.

—— (1992) 28th Aer Lingus Young Scientists' Exhibition. *Ir. Nat. J.* **24**: 175.

Scharff, R. F. (1917) Should wasps be killed? *Ir. Nat.* **26**: 88.

Schönrogge, K., Barr, B., Wardlaw, J. C., Napper, E., Gardner, M. G., Breen, J., Elmes, G. W. and Thomas, J. A. (2002) When rare species become endangered: cryptic speciation in myrmecophilous hoverflies. *Biological Journal of the Linnean Society* **75**: 291-300.

—— (2002) Addendum. When rare species become endangered: cryptic speciation in myrmecophilous hoverflies. *Biological Journal of the Linnean Society* **76**: 315.

Schönrogge, K., Moriya, S., Melika, G., Randle, Z., Begg, T., Aebi, A. and Stone, G. N. (2006) Early parasitoid recruitment in invading cynipid galls. Pp 91-101. *In galling arthropods and their associates* **2**.

Schönrogge, K., Stone, G. N. and Crawley, M. J. (1995) Spatial and temporal variation in guild structure: parasitoids and inquilines of *Andricus quercuscalicis* (Hymenoptera: Cynipidae) in its native and alien ranges. *Oikos*: **72**: 51-60.

—— (1996) Alien herbivores and native parasitoids: rapid developments and structure of the parasitoid and inquiline complex in an invading gall wasp *Andricus quercuscalicis* (Hymenoptera: Cynipidae). *Ecological Entomology* **21**: 71-80.

—— (1994) The distribution and abundance of alien, host-alternating *Andricus* spp (Hymenoptera: Cynipidae) on *Quercus* spp (oak) in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **94**B: 265-274.

Schwarz, M. and Shaw, M. R. (1998) Western Palaearctic Cryptinae (Hymenoptera: Ichneumonidae) in the National Museums of Scotland, with nomenclatural changes, taxonomic notes, rearing records and special reference to the British check list. Part 1. Tribe Cryptini. *Entomologist's Gazette* **49**: 101-127.

—— (1999) Western Palaearctic Cryptinae (Hymenoptera: Ichneumonidae) in the National Museums of Scotland, with nomenclatural changes, taxonomic notes, rearing records and special reference to the British check list. Part 2. Genus *Gelis* Thunberg (Phygadeuontini: Gelina). *Entomologist's Gazette* **50**: 117-142.

—— (2000) Western Palaearctic Cryptinae (Hymenoptera: Ichneumonidae) in the National Museums of Scotland, with nomenclatural changes, taxonomic notes, rearing records and special reference to the British check list. Part 3. Tribe Phygadeuontini, subtribes Chiroticina, Acrolytina, Hemitelina and Gelina (excluding *Gelis*), with descriptions of new species. *Entomologist's Gazette* **51**: 147-186.



Schwarz, M. and Shaw, M. R. (2010) Western Palaearctic Cryptinae (Hymenoptera: Ichneumonidae) in the National Museums of Scotland, with nomenclatural changes, taxonomic notes, rearing records and special reference to the British check list. Part 4. Tribe Phygadeuontini, subtribes Mastrina, Ethelurgina, Endaseina (excluding *Endasys*), Bathytrichina and Cremnodina. *Entomologist's Gazette* **61**: 187-206. (*Isadelphus inimicus*, *Mastrus rufulus*, *Glyphicnemis profligator*, *Bathythrix prominens*, *B. rugulosa*)

—— (2011) Western Palaearctic Cryptinae (Hymenoptera: Ichneumonidae) in the National Museums of Scotland, with nomenclatural changes, taxonomic notes, rearing records and special reference to the British check list. Part 5. Tribe Phygadeuontini, subtribe Phygadeuontina, with descriptions of new species. *Entomologist's Gazette* **62**: 175-210. (*Leptocryptoides clavipes*, *Theroscopus hemipteron*, *Megacara vagans*)

Scott, R. H. (1892) Nests of *Osmia* (?) in a rain-gauge. *Entomologist's mon. Mag.* **28**: 264.

Sears, J. and Hunter, J. M. (2005) The re-discovery of the rare mining bee *Colletes floralis* Eversmann 1852, in Northern Ireland in 2003. *Ir. Nat. J.* **28**: 53-58.

Shaw, M. R. (2000) Records of *Aleiodes excavatus* (Telenga) (Hym., Braconidae) from the British Isles. *Entomologist's mon. Mag.* **136**: 251.

—— (2006) Notes on British Pimplinae and Poemeniinae (Hymenoptera: Ichneumonidae), with additions to the British list. *British Journal of Entomology and Natural History* **19**: 217-238.

—— (2007) The species of *Cotesia* Cameron (Hymenoptera: Braconidae: Microgastrinae) parasitising Lycaenidae (Lepidoptera) in Britain. *British Journal of Entomology and Natural History* **20**: 255-267. (*C. inducta*)

—— (2008) Review. *Entomologist's mon. Mag.* **144**: 101-102.

—— (2009) *Cotesia* Cameron (Hymenoptera: Braconidae: Microgastrinae) parasitoids of Heliconiinae (Lepidoptera: Nymphalidae) in Europe, with description of three new species. *British Journal of Entomology and Natural History* **22**: 133-146. (*C. callimone*)

—— (2010) Palaearctic Homolobinae (Hymenoptera: Braconidae) in the National Museums of Scotland, with host and distribution records and a key to British species. *Entomologist's Gazette* **61**: 43-51. (*Homolobus flagitator*)

—— (2012) Notes on some European Microgastrinae (Hymenoptera: Braconidae) in the National Museums of Scotland, with twenty species new to Britain, new host data, taxonomic changes and remarks, and descriptions of two new species of *Microgaster* Latreille. *Entomologist's Gazette* **63**: 173-201.

Shaw, M. R. and Askew, R. R. (1976) Ichneumonoidea (Hymenoptera) parasitic upon leaf-mining insects of the orders Lepidoptera, Hymenoptera and Coleoptera. *Ecological Entomology* **1**: 127-133. (*Adelius* (=*Acaelis*) *subfasciatus* Haliday, *Gnamptodon pumilio* (Nees))

Shaw, M. R. and Horstmann, K. (1997) An analysis of host range in the *Diadegma nanus* group of parasitoids in Western Europe, with a key to species (Hymenoptera: Ichneumonidae: Campopleginae). *Journal of Hymenoptera Research* **6**: 273-296.

Shaw, M. R., Horstmann, K. and Whiffin, A. L. (2016) Two hundred and twenty-five species of reared western Palaearctic Campopleginae (Hymenoptera: Ichneumonidae) in the National Museums of Scotland, with descriptions of new species of *Campoplex* and *Diadegma*, and records of fifty-five species new to Britain. *Entomologist's Gazette* **67**: 177-222.

Shaw, M. R. and Kasparyan, D. R. (2003) Some genera of British and European Mesoleiini (Hym., Ichneumonidae: Ctenopelmatinae) in the National Museums of Scotland, including a new species of *Mesoleius* and a further twenty species new to Britain. *Entomologist's mon. Mag.* **139**: 17-28.

—— (2005) British and European Tryphonini, Exenterini, Eclytini and Idiogrammatini (Hym., Ichneumonidae: Tryphoninae) in the National Museums of Scotland, including 19 species new to Britain. *Entomologist's mon. Mag.* **141**: 1-14. (*Polyblastus wahlbergi*, *Monoblastus brachyacanthus*, *Cteniscus pedatorius*, *Eridolius basalis*)

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106.

Sherrard, G. O. (1911) (nest of *Vespa sylvestris*). *Ir. Nat.* **20**: 33.

Shinohara, A. (1985) Web-spinning sawflies of the *sylvaticus*-group of *Pamphilius* (Hymenoptera: Pamphilidae). *Systematic Entomology* **10**: 323-351. (Ireland: *P. sylvaticus*)

—— (2003) Leaf-rolling sawflies of the *Pamphilius vafer* complex (Hymenoptera, Pamphiliidae) in Europe. *Insect Systematics & Evolution* **34**: 453-480.

Simbolotti, G. and Achtererg, C. van (1992) Revision of the West Palaearctic species of the genus *Bassus* Fabricius (Hymenoptera: Braconidae). *Zoologische Verhandelingen, Leiden* **281**: 1-80.

Sims, I. and Cole, J. (2017) *Baeus seminulum* (Hymenoptera: Scelionidae) new to Berkshire and a review of records from the British Isles. *British Journal of Entomology and Natural History* **30**: 13-19.

Skillen, J. (1931) Hive bees and disposal of drones. *Ir. Nat. J.* **3**: 248.

Skinner, G. J. and Allen, G. W. (1996) *Ants. Naturalists' Handbooks* **24**. The Richmond Publishing Co. Ltd, Slough. (some species mentioned as Irish)

Sleeman, D. P. (2002) Insects and other invertebrates found in the guts of sea trout (*Salmo trutta* L.). *Ir. Nat. J.* **26** (2001): 381-382.

Smith, A. M. (1937) Winged ants in March. *Ir. Nat. J.* **6**: 198.

Smith, F. (1867) A revision of the British species of the Genus *Bombus*. *Entomologist* **3**: 293-298.

—— (1867) *Colletes succincta* and *C. fodiens* (Latr) in Killarney. *Entomologist* **3**: 297-298.

Smyth, F. and Nash, D. W. (2009) Overwintering of the Red Admiral Butterfly (*Vanessa atalanta* (L.)) on Howth Peninsula, Co. Dublin. *Ir. Nat. J.* **29** (2008): 81-86. (*Microgaster subcompletus*)

Späth, J. and Liston, A. D. (2003) Bestimmung von Blattminen der Blattwespengattung *Heterarthrus* an Ahorn (*Acer* sp.) sowie Neunachweise aus Deutschland (Hymenoptera, Tenthredinidae). *Nachrichtenblatt der Bayerischen Entomologen, München* **52**: 60-70. (*H. aceris*)

Speight, M. C. D. (1974) *Bombus lapponicus*, *Parasyrphus lineola* and *Phaonia exoleta*: insects new to Ireland. *Ir. Nat. J.* **18**: 123-124.

—— (1977) Athlone Field Meeting: insects collected on and near the shores of Lough Ree. *Bulletin of the Irish Biogeographical Society* **1**: 27-36. (*Macrophya punctum-album*)

—— (1978) A return visit to Hare Island. *Bulletin of the Irish Biogeographical Society* **2**: 40-41.

—— (1979) *Anoplonyx destructor*, *Hemerobius pini* and *Pamphilius hortorum*: insects new to Ireland. *Ir. Nat. J.* **19**: 302-303.

—— (1983) Sawflies: Order Hymenoptera, Sub-order Symphyta. Pp 179-180, 507. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

—— (1985) The extinction of indigenous *Pinus sylvestris* in Ireland: relevant faunal data. *Ir. Nat. J.* **21**: 449-453.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60.

Speight, M. C. D. and de Courcy Williams, M. (1981) *Macrophya duodecimpunctata*, *Nematus frenalis* and *Pamphilius gyllenhali*: sawflies (Hymenoptera: Symphyta) new to Ireland. *Ir. Nat. J.* **20**: 345-346.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Speight, M. C. D. and Legrand, J. (1984) *Coenagrion lunulatum* (Odonata): morphology of the female and notes on a second Irish colony. *Ir. Nat. J.* **21**: 237-242.

Speight, M. C. D. and Moller, C. J. (1979) *Amauronematus mundus*, *Hemichroa australis* and *Nematus brevivalvis*: sawflies new to Ireland, with notes on some other Irish sawflies (Hymenoptera: Symphyta). *Ir. Nat. J.* **19**: 443-445.

Speight, M. C. D. and O'Connor, J. P. (2007) Records of Irish sawflies (Hymenoptera: Symphyta) including three species new to Ireland. *Ir. Nat. J.* **28**: 449-451.

Spooner, B. M. and Bowdrey, J. P. (2000) Checklist of British galls and gall-causing organisms 4. Hymenoptera, part 1 Cynipinae: preliminary list. *Cecidology* **15**: 41-74.

—— (2013) Checklist of British galls and gall-causing organisms: 9. Hymenoptera (excluding Cynipidae): preliminary list. *Cecidology* **28**: 58-95.

Spooner, G. M. (1941) The characters of the female and distribution in Britain of *Pompilus trivialis* Dahlb., *unguicularis* Thoms., and *wesmaeli* Thoms. (Hymenoptera: Pompilidae). *Transactions of the Society of British Entomology* **7**: 85-122.

—— (1943) The Hymenoptera Aculeata in the Dale Collection. Notes on the Bethylidae, Chrysididae, Vespidae and Sphecidae (Part). *Entomologist's mon. Mag.* **79**: 64-77.

—— (1948) The British species of Psenine wasps (Hymenoptera: Sphecidae). *Transactions of the Royal Entomological Society of London* **99**: 129-172.

Stanley, C. K. and Dunlop, S. (2016) Second Irish record of the braconid wasp *Glyptapanteles octonarius* (Ratzeburg) (Hymenoptera: Braconidae). *Ir. Nat. J.* **35**: 66.

Stanley, D. A., Knight, M. E. and Stout, J. C. (2013) Ecological variation in response to mass-flowering oilseed rape and surrounding landscape composition by members of a cryptic bumblebee complex. *PLoS ONE* **8**(6): e65516. <https://doi.org/10.1371/journal.pone.0065516>

Stanley, D. A. and Stout, J. C. (2013) Quantifying the impacts of bioenergy crops on pollinating insect abundance and diversity: a field-scale evaluation reveals taxon-specific responses. *Journal of Applied Ecology* **50**: 335-344.

—— (2014) Pollinator sharing between mass-flowering oilseed rape and co-flowering wild plants: implications for wild plant pollination. *Plant Ecology* **215**: 315-325. (Hym.)

Starf, P. (1974) Parasite spectrum (Hym. Aphidiidae) of aphids associated with *Galium*. *Entomologica Scandinavica* **5**: 73-80.

Stelfox, A. W. (1921) The Humble Bees of Lambay. *Ir. Nat.* **30**: 108-109.

—— (1921) Two Aculeate Hymenoptera new to Ireland. *Ir. Nat.* **30**: 146-147.

—— (1922) Mites as guests in ants' nests. *Ir. Nat.* **31**: 10.

—— (1922) *Bombus sylvarum* in Ireland. *Ir. Nat.* **31**: 10-11.

—— (1922) On the habits of *Stenamma westwoodi* in Ireland. *Entomologist's Rec. J. Var.* **34**: 42-43.

—— (1924) Notes on Irish Hymenoptera Aculeata, with special reference to the Dublin District. *Ir. Nat.* **33**: 13-23.

—— (1925) Bees and their habits. *Ir. Nat. J.* **1**: 3-4.

—— (1926) Our social wasps and how to know them. *Ir. Nat. J.* **1**: 86-89, 1 plate.

—— (1926) Notes on Irish wasps. *Ir. Nat. J.* **1**: 154.

—— (1927) A list of the Hymenoptera Aculeata of Ireland. *Proceedings of the Royal Irish Academy* **22**B: 201-335.

—— (1927) The wild bees of Spring. *Ir. Nat. J.* **1**: 189-192.

—— (1927) A rare braconid, new to Ireland. *Ir. Nat. J.* **1**: 233.

—— (1928) Among the bees and wasps in 1927. *Ir. Nat. J.* **2**: 71-73.

—— (1928) *Arge metallica* Kl., a sawfly new to the British Islands, in Ireland. *Entomologist's mon. Mag.* **64**: 14-15.

—— (1928) Note on Kriechbaumer's *Ischnocerus filicornis* and *I. seticornis*. *Entomologist's mon. Mag.* **64**: 278-279.

—— (1929) On the distinction of *Pimpla clavicornis* Thoms. and *P. curticauda* Kriech. *Entomologist's mon. Mag.* **65**: 17-18.

—— (1929) A new and interesting Irish beetle from wasps' nest *Metoecus paradoxus*, L. *Ir. Nat. J.* **2**: 197-199. (Col., Hym.)

—— (1929) Recent additions to the Irish fauna and flora, Hymenoptera. *Proceedings of the Royal Irish Academy* **39**B: 11-15.

—— (1929) *Phobocampa confusa* Thoms. in Ireland. *Entomologist's mon. Mag.* **65**: 66-67.

—— (1929) *Lissonota maculata* Brischke in Ireland. *Entomologist's mon. Mag.* **65**: 67-68.

—— (1929) Why do wasps hibernate in the north side of a house? *Ir. Nat. J.* **2**: 161.

—— (1929) The great pine sawfly (*Sirex gigas* L.). *Ir. Nat. J.* **2**: 226.

—— (1930) Maritime species occurring inland in County Wicklow. *Ir. Nat. J.* **3**: 83.

—— (1930) Wasps' nests: their normal and some unusual situations. *Ir. Nat. J.* **3**: 98-101, plate 8.

Stelfox, A. W. (1932) (Wasps active in November). *Ir. Nat. J.* **4**: 24.
—— (1933) Some recent records for Irish Aculeata Hymenoptera. *Entomologist's mon. Mag.* **69**: 47-53.
—— (1933) "Facts connected with the history of a wasps' nest". *Ir. Nat. J.* **4**: 138-139.
—— (1933) On the occurrence of a peculiar race of the Humble Bee, *Bombus smithianus* White, on the Aran Islands, in Western Ireland. *Ir. Nat. J.* **4**: 235-238.
—— (1934) *Bombus smithianus allenellus*: a correction. *Ir. Nat. J.* **5**: 42.
—— (1935) Brimstone Butterfly and early bees in Co. Dublin. *Ir. Nat. J.* **5**: 231.
—— (1935) A rare sawfly at Glengarriff, West Cork. *Ir. Nat. J.* **5**: 285-286.
—— (1936) The prey of *Crabro styrius* in Ireland. *Ir. Nat. J.* **6**: 24.
—— (1936) The Irish ichneumon flies of the Genus *Banchus*. *Ir. Nat. J.* **6**: 63-64.
—— (1937) *Dacnusa*. *Ir. Nat. J.* **6**: 276-277.
—— (1938) On a peculiar variety of a Bumble Bee, (*Bombus hortorum* var. n. *splendida*). *Ir. Nat. J.* **7**: 91-92.
—— (1939) Notes on some bees, wasps, and an ant found in a Dublin suburban garden and a new method of attracting some species. *Ir. Nat. J.* **7**: 178-182.
—— (1939) Early appearance of worker Bumble Bees in 1939. *Ir. Nat. J.* **7**: 188.
—— (1939) Some additions and corrections to the List of Irish bees, wasps and ants. *Ir. Nat. J.* **7**: 203-205.
—— (1940) The ant *Lasius fuliginosus* in Cos. Wicklow and Wexford. *Ir. Nat. J.* **7**: 302-303.
—— (1941) Description of six new species of Bassive ichneumon flies, with notes on some others. *Proceedings of the Royal Irish Academy* **46**B: 109-119.
—— (1941) Some Irish chalcid flies. *Ir. Nat. J.* **7**: 337-338.
—— (1941) A new species of *Blacus* (Hymenoptera: Braconidae) with some notes on other species of the genus. *Proceedings of the Royal Irish Academy* **46**B: 121-124.
—— (1941) A list of the Irish species of *Toxares* and *Aphednus* (Hymenoptera, Aphidiidae) with descriptions of these, which include those species new to science. *Proceedings of the Royal Irish Academy* **46**B: 125-142.
—— (1942) An ant new to the Irish list. *Ir. Nat. J.* **8**: 44.
—— (1942) Irish sawfly list: a correction. *Ir. Nat. J.* **8**: 48.
—— (1943) Survey of Inishtrahull: Part 5. (By Light-Keeper D. J. Sullivan). The ants. *Ir. Nat. J.* **8**: 132-133.
—— (1944) The swarming flights of *Blacus* (Hym. Braconidae). *Entomologist's mon. Mag.* **80**: 208.
—— (1944) Notes on some Irish species of *Rogas* (Hym., Braconidae). *Entomologist's mon. Mag.* **80**: 68-69.
—— (1944) On the specific identity of *Phaenocarpa nimia* Stelfox, ♂, with *Phaenocarpa eunica* (Hal.), ♀ (Hym., Alysiidae). *Entomologist's mon. Mag.* **80**: 69.
—— (1944) *Cryptoserphus perkensi* Nixon in Ireland (Hym., Proctotrupoidea). *Entomologist's mon. Mag.* **80**: 72.
—— (1944) Note on specific characters of *Phaenocarpa canaliculata*, Stelfox, 1941 (Hym., Alysiidae). *Entomologist's mon. Mag.* **80**: 234.
—— (1944) *Phaenocarpa notabilis* sp.n. (Hym., Alysiidae) in Ireland. *Entomologist's mon. Mag.* **80**: 234-235.

Stelfox, A. W. (1944) Note on *Ephedrus* (Hym., Aphidiidae). *Entomologist's mon. Mag.* **80**: 235-236.

—— (1946) *Thaumatotypus paradoxus* Zett. (=*billupsi* Bridgman) (Hym., Ichneumonidae) in Ireland. *Entomologist's mon. Mag.* **82**: 139.

—— (1948) A new species of *Trioxys* (Hym., Aphidiidae) from Ireland. *Entomologist's mon. Mag.* **84**: 102.

—— (1948) *Opius tenuicornis* Thomson (Hym., Braconidae) in Ireland, a species new to the British list. *Entomologist's mon. Mag.* **84**: 6-7.

—— (1948) A new species of *Trioxys* (Hym., Aphidiidae) from Ireland. *Entomologist's mon. Mag.* **84**: 102.

—— (1949) *Trypoxylon attenuatum* Smith: a solitary wasp new to the Irish list. *Ir. Nat. J.* **9**: 276-277.

—— (1949) Descriptions of four new species belonging to the Genus *Opius* (Hym., Braconidae). *Entomologist's mon. Mag.* **85**: 306-308.

—— (1950) Description of the female of *Phaenocarpa notabilis* Stelfox (Hym., Brac., Alysiinae) from Scotland. *Entomologist's mon. Mag.* **86**: 272.

—— (1950) On Walker's male *Opius* recorded by Haliday as *O. scabriculus* Wesmael (Hym., Braconidae). *Entomologist's mon. Mag.* **86**: 313-314.

—— (1950) A new species of *Cryptoserphus* (Hym., Proctotrupinae) from Ireland. *Entomologist's mon. Mag.* **86**: 314-315.

—— (1950) Description of two new species of *Phaenocarpa* (Hym., Brac., Alysiinae) from Ireland. *Entomologist's mon. Mag.* **86**: 354-356.

—— (1951) The cuckoo bee *Sphecodes gibbus* L., confirmed as Irish. *Ir. Nat. J.* **10**: 169.

—— (1951) On the identity of *Rhyssalus indagator* Haliday with *Dolops hastifer* and *D. aculeator* Marshall (Hym., Braconidae). *Entomologist's mon. Mag.* **87**: 90-93.

—— (1951) Notes on *Opius caelatus* Haliday and *O. hians* Stelfox (Hym., Braconidae). *Entomologist's mon. Mag.* **87**: 113.

—— (1951) Note on *Cratospila* (=*Alysia*) *circe* (Haliday) and *C.* (=*A.*) *annellata* (Thomson) (Hym., Braconidae), the latter species new to Britain. *Entomologist's mon. Mag.* **87**: 142.

—— (1951) Two species of *Adelognathus* (Hym., Ichneumonidae) new to the British list. *Entomologist's mon. Mag.* **87**: 236.

—— (1951) Description of two small black species of *Dacnusa* (Hym., Braconidae) New to Science. *Entomologist's mon. Mag.* **87**: 320-321.

—— (1952) *Adelognathus* (*Pammicra*) *dorsalis* (Grav.) (Hym., Ichneumonidae) in Ireland and Scotland. *Entomologist's mon. Mag.* **88**: 37.

—— (1952) Bumble Bees in November, 1951. *Ir. Nat. J.* **10**: 324.

—— (1953) The association of *Dacnusa ampliator* Nees (Hym., Braconidae) with hogweed. *Entomologist's mon. Mag.* **89**: 67.

—— (1953) A new name for *Bracon concolor* Thomson (Hym., Braconidae). *Entomologist's mon. Mag.* **89**: 95.

—— (1953) *Microdus rugulosus* Nees (Hym., Braconidae) in Ireland. *Entomologist's mon. Mag.* **89**: 134.

Stelfox, A. W. (1953) *Perilitus borealis* Thomson (Hym., Braconidae) in Ireland and new to the British Isles. *Entomologist's mon. Mag.* **89**: 141.

—— (1953) A new *Rogas* (Hym., Braconidae) from Ireland. *Entomologist's mon. Mag.* **89**: 146-147.

—— (1954) A wingless humble bee (Hym., Apidae). *Entomologist's mon. Mag.* **90**: 192.

—— (1954) *Dolichochorus longiceps* Strobl (Hym., Ichneumonidae) in Ireland. *Entomologist's mon. Mag.* **90**: 159.

—— (1954) New species of Dacnusinae (Hym., Braconidae) from Ireland. *Entomologist's mon. Mag.* **90**: 159-165.

—— (1955) The apparent spread of the Bumble Bee *Bombus pratorum* L. in Ireland in recent years. *Ir. Nat. J.* **11**: 335-339.

—— (1957) Abundance of *Ephedrus validus* Hal. (Hym., Aphidiidae) in September, 1955. *Entomologist's mon. Mag.* **93**: 91.

—— (1957) Further new species of Dacnusini (Hym., Braconidae) from Ireland and notes on several other species. *Entomologist's mon. Mag.* **93**: 111-120.

—— (1957) A new name for *Opius nitidus* Stelfox, 1948 (Hym., Braconidae). *Entomologist's mon. Mag.* **93**: 212.

—— (1958) *Rhizarcha soma* Nixon (Hym., Braconidae, Dacnusinae) in Ireland and Scotland: new to the British Isles. *Entomologist's mon. Mag.* **94**: 287.

—— (1959) *Miota cebes* Nixon (Hym., Diapriidae, Belytinae) and other Hymenoptera in Northern Ireland. *Entomologist's mon. Mag.* **95**: 79.

—— (1959) A new species of *Opius* (Hym., Braconidae) from sand dunes in Ireland. *Entomologist's mon. Mag.* **95**: 118-119.

—— (1961) *Blacus strictus* (Haliday Ms.) Stelfox (Hym., Braconidae) in Co. Down and a description of the male. *Entomologist's mon. Mag.* **97**: 155.

—— (1961) A second species of *Stilbops* (Hym., Ichneumonidae) in Ireland. *Entomologist's mon. Mag.* **97**: 161.

—— (1961) *Gnathoniella egregia* Schmiedeknecht (Hym., Ichneumonidae) new to the British Isles. *Entomologist's mon. Mag.* **97**: 181-182.

—— (1964) Notes on the parasitic Hymenoptera taken in Ireland. *Ir. Nat. J.* **14**: 249-250.

—— (1966) An ichneumon parasitic on the larva of a small moth which feeds on larch. New to Ireland. *Ir. Nat. J.* **15**: 242.

—— (1966) Notes on the superfamily Heloroidea so far found in Ireland (Hymenoptera). *Proceedings of the Royal Irish Academy* **64**B: 513-516.

—— (1966) Description of a second Britannic species of the genus *Phrudus* (Hym., Ichneumonidae). *Entomologist's mon. Mag.* **102**: 65-66.

—— (1966) The species of the Genus *Eclytus*, so far found in Ireland (Hymenoptera; Ichneumonidae). *Proceedings of the Royal Irish Academy* **64**B: 509-512.

—— (1966) A list of the Proctotrupinae found in Ireland (Hymenoptera). *Proceedings of the Royal Irish Academy* **64**B: 529-540.

—— (1966) A list of the species of Belytinae (Hym.; Proctotrupoidea) so far known from Ireland, with a few records of species taken in Great Britain. *Proceedings of the Royal Irish Academy* **65**B: 101-116.

Stelfox, A. W. (1969) The species of the Genus *Trypoxylon* known to occur in Ireland (Hymenoptera: Aculeata). *Ir. Nat. J.* **16**: 238-239.

—— (1969) The species of the Genus *Bethylus* occurring in Ireland. (Hymenoptera Aculeata). *Ir. Nat. J.* **16**: 239.

—— (1969) The species of *Cephalonomia* found in Ireland: one of which is new to the Irish list and two are aliens. (Hymenoptera Aculeata). *Ir. Nat. J.* **16**: 244.

Stelfox, A. W. and Graham, M. W. R. de V. (1948) New species belonging to the Genus *Aspilota* (Hym., Braconidae, Alysiinae). *Entomologist's mon. Mag.* **84**: 102-106.

—— (1949) Notes on the Genus *Aspilota* (Hym., Braconidae). *Entomologist's mon. Mag.* **85**: 71-74.

—— (1950) Notes on the Genus *Aspilota* (Hym., Braconidae, Alysiinae) with descriptions of four new species. *Entomologist's mon. Mag.* **86**: 9-13.

—— (1950) On *Panerema inops* Forst and allied species of the Genus *Aspilota* (Hym., Braconidae, Alysiinae), with descriptions of two new species. *Entomologist's mon. Mag.* **86**: 289-293.

—— (1951) Notes on the Genus *Aspilota* (Hym., Braconidae, Alysiinae), with descriptions of five new species. *Entomologist's mon. Mag.* **87**: 3-7.

Stelfox, A. W. and Stelfox, G. M. (1937) The discovery of a second Irish species of wasp belonging to the Genus *Sphex*. *Ir. Nat. J.* **6**: 237-242.

Stigenberg, J. and Ronquist, F. (2011) Revision of the Western Palearctic Meteorini (Hymenoptera, Braconidae), with a molecular characterization of hidden Fennoscandian species diversity. *Zootaxa* **3084**: 1-95, 27 plates. (*Zele* and *Meteorus* spp.)

Stigenberg, J. and Shaw, M. R. (2013) Western Palaearctic Meteorinae (Hymenoptera: Braconidae) in the National Museums of Scotland, with rearing, phenological and distributional data, including six species new to Britain, and a discussion of a potential route to speciation. *Entomologist's Gazette* **64**: 251-268.

Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast.

Stone, G. N., Schönrogge, K., Atkinson, R. J., Bellido, D. and Pujade-Villar, J. (2002) The population biology of oak gall wasps (Hymenoptera: Cynipidae). *Annual Review of Entomology* **47**: 633-668. (*Andricus quercuscalicis*)

Stout, J. C. (2007) Pollination of invasive *Rhododendron ponticum* in Ireland. *Apidologie* **38**: 198-206.

Stout, J. C. and Morales, C. L. (2009) Ecological impacts of invasive alien species on bees. *Apidologie* **40**: 388-409.

Sullivan, D. J. (1943) Survey of Inishtrahull: Part 3. Observations on the habits of the common earwig at Inishtrahull. *Ir. Nat. J.* **8**: 101-107. (Derm., Hym.)

Sumner, S., Bevan, P., Hart, A. G. and Isaac, N. J. B. (2019) Mapping species distributions in 2 weeks using citizen science. *Insect Conservation and Diversity* **12**: 382-388. (Hym.: Vespidae)

Svensson, B. G. (1979) *Pyrobombus lapponicus* auct., in Europe recognised as two species: *P. lapponicus* (Fabricus, 1793) and *P. monticola* (Smith, 1849) (Hymenoptera, Apoidea, Bombinae). *Entomologica Scandinavica* **10**: 275-296.

Taeger, A. and Blank, S. M. (2010) ECatSym - Electronic World Catalog of Symphyta (Insecta, Hymenoptera). Program version 3.10, data version 36 (08.12.2010). Digital Entomological Information, Müncheberg.

Taeger, A., Blank, S. M. and Liston, A. D. (2006) European sawflies (Hymenoptera: Symphyta) - a species checklist for the countries. Pp 399-504. *In* Blank, S. M., Schmidt, S. and Taeger, A. (eds) *Recent sawfly research: synthesis and prospects*. Goecke and Evers, Keltern.

—— (2010) World catalog of Symphyta (Hymenoptera). *Zootaxa* **2580**: 1-1064.

Talamas, E. J., Buffington, M. L. and Hoelmer, K. (2017) Revision of Palearctic *Trissolcus* Ashmead (Hymenoptera, Scelionidae). *Journal of Hymenoptera Research* **56**: 3-185.

Talebi, A. A., Khoramabadi, A. M. and Rakhshani, E. (2011) Checklist of eulophid wasps (Insecta: Hymenoptera: Eulophidae) of Iran. *Check List* **7**: 708-719.

Taylor, J. M. (1959) *Plutothrix coelius* (Walker) (Hym., Cleonymidae) a little known parasite of *Anobium punctatum* Degeer (Col.). *Entomologist's mon. Mag.* **95**: 236.

Theobald, F. V. (1913) Appendix - First list of Aphides found with *Myrmica*. *Entomologist's Rec. J. Var.* **25**: 48-51. (Hem., Hym.)

—— (1916) Notes on Aphididae found in ant's nests. *Entomologist* **49**: 49-52. (Hem., Hym.)

Thompson, G. M., Brunt, A., Loye, S., Jess, S. and Murchie, A. K. (2013) A low-cost bucket trap for newly emerged insects. *Ir. Nat. J.* **32**: 117-120.

Thuróczy, C. and O'Connor, J. P. (2006) Notes on the Irish Pteromalidae (Hymenoptera): *Dinotiscus* Ghesquière, *Gyrinophagus* Ruschka, *Peridesmia* Förster, *Spaniopus* Walker and *Trichomalus* Thomson. *Ir. Nat. J.* **28**: 243-245.

—— (2006) Records of Irish Pteromalidae (Hymenoptera: Chalcidoidea) including three species new to Ireland. *Ir. Nat. J.* **29** (2008): 97-98.

—— (2009) Notes on the Irish Pteromalidae (Hymenoptera: Chalcidoidea): *Gastrancistrus* Westwood, *Lamprotatus* Westwood, *Macroglenes* Westwood and *Seladerma* Walker. *Ir. Nat. J.* **30**: 29-31.

—— (2010) Records of Irish Chalcidoidea (Hymenoptera) including thirteen species new to Ireland. *Ir. Nat. J.* **30** (2009): 123-126.

—— (2013) Notes on the Irish Pteromalidae (Hymenoptera: Chalcidoidea): *Chlorocytus* Graham, *Holcaeus* Thomson and *Stenomalina* Ghesquiere including six species new to Ireland. *Ir. Nat. J.* **32**: 72-74.

—— (2015) Eleven species of fairy fly (Hymenoptera, Chalcidoidea: Mymaridae) new to Ireland. *Ir. Nat. J.* **34**: 55-60.

Tiedeken, E. J., Egan, P. A., Stevenson, P. C., Wright, G. A., Brown, M. J. F., Power, E. F., Farrell, I., Matthews, S. M. and Stout, J. C. (2016) Nectar chemistry modulates the impact of an invasive plant on native pollinators. *Functional Ecology* **30**: 885-893.

Tobias, V. I. (2006) Palaearctic species of the genus *Dinotrema* Foerster (Hymenoptera, Braconidae, Alysiinae) with a prescutal pit and long ovipositor. *Entomological Review* **86**: 324-336. (*D. caudatum*, *D. denticulatum*, *D. falsificum*)

Tortorici, F., Talamas, E. J., Moraglio, S. T., Pansa, M. G., Asadi-Farfar, M., Tavella, L. and Caleca, V. (2019) A morphological, biological and molecular approach reveals four cryptic species of *Trissolcus* Ashmead (Hymenoptera, Scelionidae), egg parasitoids of Pentatomidae (Hemiptera). *Journal of Hymenoptera Research* **73**: 153-200.

Townes, H. (1983) Revisions of twenty genera of Gelini (Ichneumonidae). *Memoirs of the American Entomological Institute* **35**: 1-281.

Triapitsyn, S. V. (2015) Taxonomic notes on *Anagrus incarnatus* Haliday and some other fairyflies (Insecta: Hymenoptera: Mymaridae) from the A. H. Haliday Collection in the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **39**: 215-221.

Turner, G. (1914) *Spilocryptus fumipennis* in Co. Donegal. *Ir. Nat.* **23**: 50.

Van Veen, F. J. F. (not dated) Check list of British and Irish Charipinae (Hymenoptera: Cynipoidea: Figitidae). <http://www.nhm.ac.uk/ resources-rx /files/ subfamily _charipinae-40356.pdf>. (I = Ireland)

Verheyde, F. and Sioen, G. (2019) Outbreaks of *Tomostethus nigritus* (Fabricius, 1804) (Hymenoptera, Tenthredinidae) on *Fraxinus angustifolia* 'Raywood' in Belgium. *Journal of Hymenoptera Research* **72**: 67-81.

Viitasaari, M. (2002) The Northern European taxa of Pamphiliidae (Hymenoptera). Pp 235–358. *In* Viitasaari, M. (ed.) *Sawflies (Hymenoptera, Symphyta) I. A review of the suborder, the Western Palaearctic taxa of Xyeloidea and Pamphilioidea*. Tremex Press, Helsinki. (*Pamphilius inanitus*)

Vikberg, V. and Liston, A. D. (2009) Taxonomy and biology of European Heptamelini (Hymenoptera, Tenthredinidae, Selandriinae). *Zootaxa* **2112**: 1-24.

Vlug, H. J. (1985) The types of Platygastridae (Hymenoptera, Scelionoidea) described by Haliday and Walker and preserved in the National Museum of Ireland and the British Museum (Natural History). 2. Keys to species, redescriptions, synonymy. *Tijdschrift voor Entomologie* **127**: 179-224.

Vlug, H. J. and Graham, M. W. R. de V. (1984) The types of Platygastridae (Hymenoptera, Scelionoidea) described by Haliday and Walker and preserved in the National Museum of Ireland and the British Museum (Natural History). 1. Designation of lectotypes. *Tijdschrift voor Entomologie* **127**: 115-135.

Walker, A. K. and Wharton, R. A. (2011) A review of New World *Eurytenes s. str.* (Hymenoptera, Braconidae, Opiinae). *Journal of Hymenoptera Research* **20**: 23-46. (*E. abnormis*)

Walker, F. (1836) On the species of *Platygaster*, etc. *The Entomological Magazine* **3**: 217-274, plate XII.

—— (1836) On the species of *Teleas* &c. *The Entomological Magazine* **3**: 341-370, plate XIII.

—— (1836) Monographia Chalciditum. *The Entomological Magazine* **4**: 9-26.

—— (1837) On the Dryinidae, etc. *The Entomological Magazine* **4**: 411-435, plate xvi.

—— (1837) Monographia Chalciditum. *The Entomological Magazine* **4**: 349-364, 439-461. **5**: 35-55.

—— (1838) Monographia Chalciditum. *The Entomological Magazine* **5**: 102-118, 418-431.

—— (1838) Descriptions of British Chalcidites. *Annals and Magazine of Natural History* **1**: 307-312, 381-387. **2**: 198-205.

Walker, F. (1838) Descriptions of some Oxyuri. *The Entomological Magazine* **5**: 453-458.
—— (1839) Descriptions of British Chalcidites. *Annals and Magazine of Natural History* **2**: 350-355. **3**: 177-182. **4**: 232-236.
—— (1839) *Monographia chalciditum*. **1**. Bailliére, London.
—— (1844) Descriptions of some British Chalcidites. *Annals and Magazine of Natural History* **14**: 181-185.
—— (1846) Descriptions of the Mymaridae. *Annals and Magazine of Natural History* **18**: 49-54.
—— (1846) *List of the specimens of hymenopterous insects in the collection of the British Museum. Part I. - Chalcidites*. British Museum, London. i-viii, 1-100.
—— (1848) Notes on chalcidites and other insects. *Annals and Magazine of Natural History* Series 2. **2**: 218-220.
—— (1848) *List of the specimens of hymenopterous insects in the collection of the British Museum. Part II. - Chalcidites. Additional species*. British Museum, London. i-iv, 99-237.
—— (1850) Notes on chalcidites, and descriptions of various new species. *Annals and Magazine of Natural History* Series 2. **5**: 125-133.
—— (1851) Notes on chalcidites, and descriptions of various new species. *Annals and Magazine of Natural History* Series 2. **5**: 210-216.
—— (1872) Economy of Chalcidiae. *Entomologist* **6**: 225-227, 249-251.
—— (1870) *Cynips lignicola* in Killarney, Co. Kerry. *Entomologist* **5**: 197.
—— (1872) Economy of *Torymidae*. *Entomologist* **6**: 41-43. (reference to A. H. Haliday)
Walls, D. P. (1943) Notes on discoveries of species in new localities. *Entomologist's Rec. J. Var.* **55**: 50-51.
—— (1943) Note on ants found at the head of Glenmacnass Valley, Co. Wicklow, 17th August 1942. *Entomologist's Rec. J. Var.* **55**: 51.
—— (1943) Note on attempted copulation with workers. *Entomologist's Rec. J. Var.* **55**: 63.
—— (1943) Description of some gynandromorphs and pterygates (ants). *Entomologist's Rec. J. Var.* **55**: 64-65.
—— (1966) New locations for Irish Formicidae. *Ir. Nat. J.* **15**: 242.
Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.
Welch, R. C. (1986) Herbaria as a source of gall records. *Cecidology* **1**: 8-9. (*Neuroterus quercusbaccarum*)
Welch, R. J. (1898) (*Formica rufa*). *Proceedings of the Belfast Naturalists' Field Club* **4**: 488. & *Ir. Nat.* **8**: 46.
—— (1907) Scarcity of wasps. *Ir. Nat.* **16**: 370.
—— (1928) A flight of ants. *Ir. Nat. J.* **2**: 86.
—— (1931) Marriage flight of ants. *Ir. Nat. J.* **3**: 250.
Wetterer, J. K. (2013) Worldwide spread of Alluaud's little yellow ant, *Plagiolepis alluaudi* (Hymenoptera: Formicidae). *Myrmecological News* **19**: 53-59.
Wharton, R. A. (1986) The braconid genus *Alysia* (Hymenoptera): a description of the subgenera and a revision of the subgenus *Alysia*. *Systematic Entomology* **11**: 453-504.

Wharton, R. A. (1988) The braconid genus *Alysia* (Hymenoptera): a revision of the subgenus *Anarcha*. *Contributions of the American Entomological Institute* **25**: 1-69.

Wilkinson, D. S. (1935) *Euphydryas aurinia* (Rott.) from Ireland parasitised by *Apanteles bignellii* Marshall. *Proceedings of the Royal Entomological Society of London A* **10**: 62.

—— (1945) Description of Palearctic species of *Apanteles* (Hym., Braconidae). *Transactions of the Royal Entomological Society of London* **95**: 35-226.

Williams, C. and Gormally, M. (2009) Wasps. Parasitoid wasp new to science (from a) turlough in Co. Mayo. *Biodiversity Ireland* **Issue 3**: 10. (*Mesoleptus*)

Williams, P. H. (1994) Phylogenetic relationships among bumble bees (*Bombus* Latr.): a reappraisal of morphological evidence. *Systematic Entomology* **19**: 327-344. (Ireland shown on two maps)

—— (1998) An annotated checklist of bumble bees with an analysis of patterns of description (Hymenoptera: Apidae, Bombini). *Bulletin of the British Museum of Natural History* (Entomology) **67**: 79-152.

Williams, P. H., An, J. and Hang, J. (2011) The bumblebees of the subgenus *Subterraneobombus*: integrating evidence from morphology and DNA barcodes (Hymenoptera, Apidae, Bombus). *Zoological Journal of the Linnean Society* **163**: 813-862. (*Bombus distinguendus*)

Witmond, L. (2001) Een toevoeging en correctie op de Nederlandse lijst van *Urocerus* (Hymenoptera: Siricidae). *Entomologische Berichten* **61**: 30-32.

Wolfe, J. J. (1895) External parasites of larvae. *Entomologist's Rec. J. Var.* **7**: 255.

Worms, C. G. M. de (1966) *Sirex gigas* L. in Connemara. *Entomologist's Rec. J. Var.* **78**: 26.

Yarrow, I. H. H. (1954) The Irish form of *Myrmosa atra* Panz. (Hym., Tiphiidae). *Journal of the Society for British Entomology* **5**: 43.

—— (1954) The British ants allied to *Formica fusca* L. (Hym., Formicidae). *Transactions of the Society of British Entomology* **11**: 229-244.

—— (1955) The British ants allied to *Formica rufa* L. (Hym., Formicidae). *Transactions of the Society of British Entomology* **12**: 1-48.

—— (1955) Some ways of distinguishing between the two common wasps *Vespula germanica* (Fabricius) and *Vespula vulgaris* (Linnaeus). *Entomologist* **88**: 5-9.

—— (1969) Some additional and little known British species of the solitary wasp genus *Spilomena* Shuckard (Hym., Sphecoidea). *Entomologist's Gazette* **20**: 97-104.

—— (1970) Some nomenclatorial problems in the Genus *Passaloecus* Shuckard and two species not before recognised as British (Hym., Sphecidae). *Entomologist's Gazette* **21**: 167-189.

Yildirim, E. M., Civelek, H. S., Çikman, E., Dursun, O. and Eskin, A. (2010) Contributions to the Turkish Braconidae (Hymenoptera) fauna with seven new records. *Turkiye Entomoloji Dergisi* **34**: 29-35. (*Chorebus flavipes*)

Zinovjev, A. G. (1994) Taxonomy and biology of two related species of gall-making sawflies from the *Pontania viminalis*-group (Hymenoptera: Tenthredinidae). *Entomological Scandinavica* **25**: 231-240.

Zinovjev, A. G. and Vikberg, V. (1999) The sawflies of the *Pontania crassipina*-group with a key for the genera of the subtribe Euurina (Hymenoptera: Tenthredinidae, Nematinae). *Entomological Scandinavica* **30**: 281-298. (*P. tuberculata* (Benson))



CHAPTER 11. *LEPIDOPTERA

Anon. (1857) (*Hydrelia banksiana*). *Proceedings of the Natural History Society of Dublin* **2**: 70.

—— (1859) (*Acherontia atropos* and *Sphinx convolvuli*). *Proceedings of the Natural History Society of Dublin* **3**: 2.

—— (1865) *Notodonta bicolor* in Ireland. *Entomologist* **2**: 71.

—— (1865) *Ophiodes lunaris* in Ireland. *Entomologist* **2**: 86.

—— (1866) (*Macroglossa stellatarum* and *Phalera bucephala*). *Proceedings of the Natural History Society of Dublin* **5**: 92.

—— (1875) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **1**: 160.

—— (1876) (*Cynthia cardui*). *Proceedings of the Belfast Naturalists' Field Club* **1**: 243.

—— (1877) (*Thecla rubi*). *Proceedings of the Belfast Naturalists' Field Club* **1**: 299.

—— (1877) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **1**: 371-372.

—— (1879) (*Polyommatus alsus* and *Zygaena filipendulae*). *Proceedings of the Belfast Naturalists' Field Club* **1**: 391-392.

—— (1892) (*Amphidasys betularia). Ir. Nat.* **1**: 100.

—— (1892) (Lepidoptera). *Ir. Nat.* **1**: 101.

—— (1892) (Lepidoptera). *Ir. Nat.* **1**: 102.

—— (1892) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **3**: 471, 474, 456-459.

—— (1892) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **3**: 487.

—— (1893) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **3**: 479, 483.

—— (1893) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **3**: 487.

—— (1893) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **4**: 34.

—— (1893) (Lepidoptera). *Ir. Nat.* **2**: 254.

—— (1893) (Lepidoptera). *Ir. Nat.* **2**: 320.

—— (1893) (*Coenonympha typhon* var. *laidion*). *Entomologist's Rec. J. Var.* **4**: 201.

—— (1893) (*Boarmia repandata* and other Lepidoptera). *Entomologist* **26**: 332.

—— (1894) (Lepidoptera). *Ir. Nat.* **3**: 182-184.

—— (1894) (Lepidoptera). *Ir. Nat.* **3**: 222.

—— (1894) Irish butterflies - *Lycaena artaxerexes* in Co. Galway. *Ir. Nat.* **3**: 92.

—— (1894) Irish moths. *Ir. Nat.* **3**: 217-220, 233-235.

—— (1894) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **5**: 23.

—— (1894) Irish butterflies. *Ir. Nat.* **3**: 56-59.

—— (1895) (Lepidoptera). *Ir. Nat.* **4**: 346.

—— (1896) (Lepidoptera). *Ir. Nat.* **5**: 85.

—— (1896) (*Nonagria typhae*). *Ir. Nat.* **5**: 216.

—— (1896) (*Argynnis aglaia*). *Ir. Nat.* **5**: 267.

—— (1896) The Genus *Dianthoecia*. *Entomologist's Rec. J. Var.* **8**: 7-10.

—— (1897) *Larentia flavicinctata* in Ireland. *Entomologist* **30**: 297.

—— (1897) Ignorance and introduction. *Ir. Nat.* **6**: 82.

Anon. (1898) (Lepidoptera). *Ir. Nat.* **7**: 58.
—— (1898) (*Colias edusa*). *Ir. Nat.* **7**: 146.
—— (1899) (Book Review). *Entomologist* **32**: 143-144.
—— (1899) (*Acherontia atropos*). *Ir. Nat.* **8**: 207.
—— (1900) (Limerick Field Club - butterfly records). *Ir. Nat.* **9**: 78.
—— (1900) (*Ephinephele janira*). *Ir. Nat.* **9**: 231.
—— (1900) The Stevens Collection. *Entomologist* **33**: 178-179.
—— (1901) (Death's Head Moth). *Ir. Nat.* **10**: 19.
—— (1901) (Peacock Butterfly). *Proceedings of the Belfast Naturalists' Field Club* **5**: 23.
—— (1902) (Lepidoptera). *Ir. Nat.* **11**: 217.
—— (1903) (Lepidoptera). *Ir. Nat.* **12**: 208-209.
—— (1903) Forgers of nature's signature. *Ir. Nat.* **12**: 106-107.
—— (1903) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **5**: 82.
—— (1904) (*Lasiocampa quercus*). *Proceedings of the Belfast Naturalists' Field Club* **5**: 278.
—— (1905) (Butterflies). *Proceedings of the Belfast Naturalists' Field Club* **5**: 392.
—— (1905) (*Euchelia jacobaeae*). *Proceedings of the Belfast Naturalists' Field Club* **5**: 397.
—— (1905) (Butterflies). *Ir. Nat.* **14**: 168.
—— (1905) The Mason Collection. *Entomologist* **38**: 136-137.
—— (1905) The Battersby collection of Lepidoptera. *Ir. Nat.* **14**: 251.
—— (1906) Current notes. *Entomologist's Rec. J. Var.* **18**: 294. (*Luperina luterago* var *barretii* in Co. Cork)
—— (1906) The Barrett Collection of British Lepidoptera. *Entomologist* **39**: 116-118.
—— (1907) The Mathew Collection of British Lepidoptera. *Entomologist* **40**: 9-11.
—— (1907) The Raynor Collection of British Lepidoptera. *Entomologist* **40**: 294-295.
—— (1907) (Butterflies). *Proceedings of the Belfast Naturalists' Field Club* **6**: 16.
—— (1908) The sale of the Collection of Lepidoptera formed by the late Mr W. H. E. Thornthwaite. *Entomologist's Rec. J. Var.* **20**: 284-285.
—— (1909) The Clark Collection. *Entomologist* **42**: 318-320.
—— (1909) (Excursion to Brittas Bay, Co. Wicklow). *Ir. Nat.* **18**: 228.
—— (1910) (*Gonepteryx rhamni*). *Proceedings of the Belfast Naturalists' Field Club* **6**: 381, 400.
—— (1911) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **6**: 381.
—— (1911) (*Zygaena filipendulae*). *Ir. Nat.* **20**: 144.
—— (1911) Lepidoptera from Ulster. *Ir. Nat.* **20**: 76.
—— (1911) (Silver-washed Fritillary). *Ir. Nat.* **20**: 163.
—— (1912) The Hodges and Harrison Collections. *Entomologist* **45**: 16-17.
—— (1912) (Lepidoptera). *Proceedings of the Belfast Naturalists' Field Club* **6**: 596.
—— (1916) *Abraxas grossulariata* - a new Irish variety. *Ir. Nat.* **25**: 83.
—— (1917) *Anosia archippus* in Co Cork. *Ir. Nat.* **26**: 18.
—— (1917) Happy Roscommon! *Ir. Nat.* **26**: 171.
—— (1917) (Oak Eggar). *Ir. Nat.* **26**: 188.
—— (1923) The Horne Collection. *Entomologist* **56**: 69-72, 93-96, 116-118.
—— (1924) The Hemming Collection. *Entomologist* **57**: 118-119.

Anon. (1926) (Emperor Moth). *Proceedings of the Belfast Naturalists' Field Club* **8**: 143.
—— (1927) Cat which catches butterflies. *Ir. Nat. J.* **1**: 195.
—— (1927) (Convolvulus Hawk-Moth). *Ir. Nat. J.* **1**: 275.
—— (1928) Newspaper Entomology. *Entomologist's Rec. J. Var.* **40**: 94.
—— (1929) *Chrysophanus dispar* Haw., and its recent establishment in the British Islands. *Entomologist's mon. Mag.* **65**: 197-198, plate VIII.
—— (1929) (Swarms of *Melitaea aurinia* larvae). *Proceedings of the Belfast Naturalists' Field Club* **9**: 32.
—— (1929) Report of the committee appointed by the Entomological Society of London for the Protection of British Lepidoptera. *Proceedings of the Entomological Society of London A* **4**: 53-68.
—— (1931) (*Plusia ni*). *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 63.
—— (1931) (Death's-Head Hawk Moth). *Ir. Nat. J.* **3**: 156.
—— (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.
—— (1932) (Convolvulus Hawk Moth). *Proceedings of the Belfast Naturalists' Field Club* **9**: 164.
—— (1934) The 'Chalk Hill Blue' Butterfly is not an Irish insect! *Ir. Nat. J.* **5**: 73-74.
—— (1936) Phenological notes. *Ir. Nat. J.* **6**: 8.
—— (1937) (*Hyponomeuta evonymella*). *Ir. Nat. J.* **6**: 283.
—— (1939) Convolvulus Hawk-Moth in Co. Dublin. *Ir. Nat. J.* **7**: 214.
—— (1941) (Clouded Yellow Butterfly in the North). *Ir. Nat. J.* **7**: 341.
—— (1942) (Irish records for Death's-Head Hawk-Moth, 1940). *Ir. Nat. J.* **8**: 9.
—— (1942) (The 1941 Clouded Yellow immigration). *Ir. Nat. J.* **8**: 10.
—— (1942) Sale notes. *Entomologist's Rec. J. Var.* **54**: 143-144.
—— (1943) Current notes. *Entomologist's Rec. J. Var.* **55**: 52.
—— (1943) Arrival of migrant insects. *Ir. Nat. J.* **8**: 83.
—— (1944) Sale of the Collection of British Lepidoptera formed by the late Sir Beckwith Whitehouse. *Entomologist's Rec. J. Var.* **56**: 56-57.
—— (1946) Death's-Head and Convolvulus Hawk-Moth in 1945. *Ir. Nat. J.* **8**: 336.
—— (1953) Current notes. (Lep.). *Entomologist's Rec. J. Var.* **65**: 358-360. (*Nonagria algae* Esper)
—— (1962) Corrigendum. The butterflies of Northern Ireland. *Ir. Nat. J.* **14**: 84.
—— (1969) Annual exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **2**: 36-40. (p. 39 Irish records of *Cochylis pallidana* Zell., *Ancylis inornatana* H-S. (new); *Phalonidia griseana* Haw., *Hysterosia musculosana* Haw., *Nepticula salicis* Staint., *Platyptilia tesseradactyla* Zell., *Epinotia nemorivaga* Tengst. and *Coleophora troglodytella* Dup.)
—— (1970) The Annual Exhibition - 1st November 1969. *Proceedings and Transactions of the British Entomological and Natural History Society* **3**: 17-23. (p. 18 Irish Lepidoptera, p. 20 *Lobesia littoralis* Westw., pp 21-22 West of Ireland)
—— (1971) Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 10-17. (p. 15 eight species new to Ireland)

Anon. (1972) Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **5**: 21-26. (p. 25 The Burren)

—— (1973) Centenary Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 20-27. (p. 22 *Agrotis ripae* Hübn. colour form, p. 23 *Luperina nickerlii* ssp. *knilli* Boursin from Co. Kerry)

—— (1974) The 1973 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 33-36. (p. 34 *Camptogramma bilineata* L., p. 35 *Pyrausta sanguinalis* L., *Acleris unitana* Hübn.)

—— (1975) The 1974 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 12-21. (pp 15-17 records of Irish Microlepidoptera)

—— (1976) The 1975 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **9**: 2-13. (p. 5 *Hadena perplexa* D. & S., p. 6 *Maniola jurtina* L., *Hipparchia semele* L., *Eublemma ostrina* Hübn., p. 7 *Stigmella auritela* (Skala))

—— (1976) Bibliography. Pp 135-144. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

—— (1977) The 1976 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **10**: 2-15. (p. 3 bred *Mythimna loreyi* Dup., p. 3 Lepidoptera taken in June and August 1976 including races, p. 5 *Camptogramma bilineata* Kane *isolata*)

—— (1978) The 1977 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 2-20. (p. 3 specimens from Southern Ireland June 1977, p. 4 butterflies from Western Ireland, p. 6 Noctuidae from Inch, Co. Kerry, p. 7 *Polyommatus icarus* (Rott.), p. 12 *Anania funebris* (Ström), *Pyrausta sanguinalis* (L.), *Cosmopterix drurella* (F.) new to Ireland, p. 14 *P. sanguinalis*, *Eana penziana colquhounana* (Barrett), *Epiblema incarnatana* (Hbn))

—— (1979) The 1978 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **12**: 1-16. (p. 1 *Diaphora mendica* (Clerck) f. *rustica* from Co. Limerick, p. 2 extremely pale *Arctia caja* (L.))

—— (1980) The 1979 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **13**: 1-16. (p. 2 *Diaphora mendica* (Clerck) f. *rustica* (Hübn) from Co. Limerick)

—— (1981) 1980 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **14**: 22-33. (p. 22 mention of Irish moths, p. 25 *Coleophora frischella* (L.) believed to be new)

—— (1982) 1981 Annual Exhibition. *Proceedings and Transactions of the British Entomological and Natural History Society* **15**: 33-43. (p. 34 butterflies taken in western Ireland, p. 35 *Agonopterix pallorella* (Zell.), *Epinotia mercuriana* Fröl., *Monopis imella* (Hübn.) (new to Ireland))

—— (1985) Insect conservation news excerpts. The marsh fritillary in Northern Ireland: one of the last sites under threat. *Bulletin of the Amateur Entomologists' Society* **44**: 88-89.

Anon. (1987) Annual exhibition 1986. *Bulletin of the Amateur Entomologists' Society* **46**: 119-120. (Fox, D., Burke, S.; also **47**: 127)

—— (1989) Exhibitors at the 1988 exhibition. *Bulletin of the Amateur Entomologists' Society* **48**: 135-139. (Lavery, J & T.: *Thecla betulae* L.)

—— (2002) Migrant butterflies during 2001. *Atropos* **15**: 26-30. (*Danaus plexippus*)

—— (2002) Insects reported during the early part of 2002. *Atropos* **16**: 74-75. (*Hyles livornica*)

—— (2002) Insects reported during the early part of 2002. *Atropos* **17**: 17-19. (*Colias croceus*, *Hyles livornica*)

—— (2003) Migrant butterflies during 2002. *Atropos* **18**: 17-18. (*Vanessa atalanta*, *V. cardui*, *Colias croceus*, *Danaus plexippus*)

—— (2003) Migrant round-up. *Atropos* **18**: 69-71. (*Acherontia atropos*)

—— (2003) Insects reported during the early part of 2003. *Atropos* **19**: 71-72. (*Vanessa atalanta*, *V. cardui*, *Plutella xylostella*)

—— (2007) Royal Irish Academy. Praeger Fund for Field Natural History. *Ir. Nat. J.* **28** (2006): 335.

—— (2009) The Irish Butterfly Monitoring Scheme. *Biodiversity Ireland* **Issue 4**: 21. (painted lady)

—— (2010) Monitoring Irish butterflies. *Biodiversity Ireland* **Issue 5**: 22.

—— (2011) Butterflies. *Biodiversity Ireland* **Issue 7**: 13. (marsh fritillary)

—— (2011) Irish butterflies under threat of extinction. *Biodiversity Ireland* **Issue 7**: 21. (The pearlbordered fritillary, small blue, wall, dark green fritillary, large heath, marsh fritillary)

—— (2011) Irish Butterfly Monitoring Scheme. *Biodiversity Ireland* **Issue 8**: 22-23.

—— (2012) Additional records, 2011. Reports from coastal stations - 2011. *Atropos* **45**: 79-80.

—— (2012) County Moth Recorders and Moth Recording Schemes. *Entomologist's Rec. J. Var.* **124**: 1-10.

—— (2013) Additional records, 2012. Reports from coastal stations - 2012. *Atropos* **48**: 73-74.

—— (2014) Additional records, 2013. Reports from coastal stations - 2013. *Atropos* **51**: 86-87.

—— (2018) Butterflies of Ireland. *Biodiversity Ireland* **Issue 17**: 12-13.

—— (2020) News. Irish butterfly monitoring scheme. *Biodiversity Ireland* **Issue 20**: 4.

Abbott, P. W. (1900) (*Lycaena alexis*). *Entomologist's mon. Mag.* **36**: 137 & *Entomologist* **33**: 160.

Adkin, B. W. (1910) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 113.

—— (1929) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1929-30**: 88.

Adkin, R. (1893) *Spilosoma mendica* and its var. *rustica* interbred. *Entomologist* **26**: 297.

—— (1895) *Vanessa urticae*, var *connexa*, in Scotland. *Entomologist* **28**: 83-84.

—— (1897) *Spilosoma mendica* and its var *rustica*. *Entomologist* **30**: 205-206.

Adkin, R. (1897) (On the occurrence of *Tephrosia crepuscularia* (*biundularia*) in Ireland). *Entomologist's Rec. J. Var.* **9**: 324.

—— (1905) (*Hybernia progemmaria*). *Proceedings of the South London Entomological and Natural History Society* **1905-06**: 72.

—— (1906) Some thoughts on the probability of the abundance of certain species of Lepidoptera in 1906 being due to migration, and its possible effect on our insect fauna. *Proceedings of the South London Entomological and Natural History Society* **1906-07**: 33-37.

—— (1909) Stray notes on the variation and distribution of *Boarmia repandata* in Britain. *Proceedings of the South London Entomological and Natural History Society* **1909-10**: 1-4.

—— (1910) (*Hepialus humuli*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 102.

—— (1910) Notes on *Hepialus humuli* and its Shetland forms. *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 13-14.

—— (1910) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 112

—— (1912) (*Hadena barrettii*). *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 77-78.

—— (1912) (*Coenonympha tiphon*). *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 80.

—— (1914) *Colias edusa* in Britain. *Proceedings of the South London Entomological and Natural History Society* **1914-15**: 22-30.

—— (1917) Sale of Mr. Thomas H. Briggs' Collection. *Entomologist* **50**: 287-288.

—— (1918) (*Ematurga atomaria*). *Proceedings of the South London Entomological and Natural History Society* **1918-19**: 76.

—— (1918) (*Spilosoma* spp.). *Proceedings of the South London Entomological and Natural History Society* **1918-19**: 54.

—— (1919) *Acidalia marginepunctata* Göze. *Proceedings of the South London Entomological and Natural History Society* **1919-20**: 3-7.

—— (1919) (*Aglais urticae*). *Proceedings of the South London Entomological and Natural History Society* **1919-20**: 77.

—— (1921) (*Diaphora mendica*). *Proceedings of the South London Entomological and Natural History Society* **1922-23**: 69.

—— (1922) *Diaphora mendica*, Form *venosa*, N.F. *Entomologist* **55**: 79.

—— (1922) *Diacrisia mendica*. Its history and variation. *Proceedings of the South London Entomological and Natural History Society* **1922-23**: 48-56.

—— (1922) (*Diacrisia mendica*). *Proceedings of the South London Entomological and Natural History Society* **1922-23**: 126.

—— (1926) Melanism in Lepidoptera. Some theories and examples. *Proceedings of the South London Entomological and Natural History Society* **1926-27**: 7-21, 1 plate.

—— (1927) Species in the making. *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 61-70, 3 pls.

Adkin, R. (1927) (*Diacrisia mendica*). *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 136.

—— (1928) (*Diacrisia mendica*). *Proceedings of the South London Entomological and Natural History Society* **1928-29**: 102-103.

—— (1932) (*Dysstroma* spp.). *Proceedings of the South London Entomological and Natural History Society* **1932-33**: 87.

—— (1935) (*Taeniocampa gothica*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1935-36**: 87.

Agassiz, D. (1977) Lepidoptera in the South of Ireland. *Entomologist's Rec. J. Var.* **89**: 73-74.

—— (1978) (exhibits: *Acleris hastiana* (L.) (Tortricidae)). *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 53.

—— (1982) Lepidoptera in Ireland. *Entomologist's Rec. J. Var.* **94**: 130-131.

—— (2015) *Deplanqueia inscriptella* (Duponchel, 1836) a sister species of *D. dilutella* (Denis & Schiffermüller, 1775) (Lepidoptera: Pyralidae) resident in Britain. *Entomologist's Rec. J. Var.* **127**: 185-189.

Agassiz, D., Heckford, R. and Langmaid, J. (1992) Microlepidoptera review of the year 1990. *Entomologist's Rec. J. Var.* **104**: 189-195, 243-251.

—— (1993) Microlepidoptera review for 1991. *Entomologist's Rec. J. Var.* **105**: 159-170.

—— (1994) Microlepidoptera review of 1992. *Entomologist's Rec. J. Var.* **106**: 213-228.

Agassiz, D. and Skinner, B. (1980) The apparent absence from Britain of *Thera variata* (Denis & Schiffermuller) and related changes in the nomenclature. *Entomologist's Rec. J. Var.* **92**: 162-166, plates XII-XIII.

Agassiz, D. J. L. (1982) *Oegoconia caradjai* Popescu-Gorj and Căpuse (Lep: Gelechiidae) recognised as British. *Proceedings and Transactions of the British Entomological and Natural History Society* **15**: 1-5. (*O. quadripuncta* (Haworth))

—— (1982) Microlepidoptera: a review of the year 1981. *Entomologist's Rec. J. Var.* **94**: 97-98.

—— (1983) Microlepidoptera - a review of the year 1982. *Entomologist's Rec. J. Var.* **95**: 187-195.

—— (1984) Microlepidoptera - a review of the year 1983. *Entomologist's Rec. J. Var.* **96**: 245-258.

—— (1985) Microlepidoptera - a review of the year 1984. *Entomologist's Rec. J. Var.* **97**: 203-215.

—— (1987) Microlepidoptera - a review of the year 1985. *Entomologist's Rec. J. Var.* **99**: 169-181.

—— (1987) The British Argyresthiinae and Yponomeutinae. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 1-26, plates I-II.

—— (1988) Microlepidoptera - a review of the year 1986. *Entomologist's Rec. J. Var.* **100**: 118-130.

—— (1989) Microlepidoptera - a review of the year 1987. *Entomologist's Rec. J. Var.* **101**: 141-151.

—— (1990) Microlepidoptera - a review of the year 1988. *Entomologist's Rec. J. Var.* **102**: 129-141.

Agassiz, D. J. L. (1991) Microlepidoptera review of the year 1989. *Entomologist's Rec. J. Var.* **103**: 141-153.

—— (1992) Additions to the British Microlepidoptera. *British Journal of Entomology and Natural History* **5**: 1-13. (*Nematopogon magna* (Zell.), *Eulamprotes phaeella* Heckford and Langmaid)

—— (1996) Invasions of Lepidoptera into the British Isles. Pp 9-36. *In* Emmet, A. M. (ed.) *The moths and butterflies of Great Britain and Ireland.* **3**. Harley Books, Colchester.

—— (1996) Yponomeutidae. Pp 39-114, plate 11. *In* Emmet, A. M. (ed.) *The moths and butterflies of Great Britain and Ireland.* **3**. Harley Books, Colchester. (Glyphipterigidae included)

—— (2000) The 1997 presidential address - part 2 why names change? *British Journal of Entomology and Natural History* **13**: 41-49. (*Phyllonorycter*, *Pterophorus fuscolimbatus*)

Agassiz, D. J. L., Beavan, S. D. and Heckford, R. J. (2013) Checklist of the Lepidoptera of the British Isles. *Handbooks for the Identification of British Insects* 206pp. Field Studies Council for the Royal Entomological Society.

—— (2015) Dataset: Checklist of the Lepidoptera of the British Isles - Data. <http://dx.doi.org/10.5519/0093915>

—— (2016) Corrigenda to *A checklist of the Lepidoptera of the British Isles*, 2013. *Entomologist's Rec. J. Var.* **128**: 50-55.

—— (2016) Addenda and amendments to *A checklist of the Lepidoptera of the British Isles* on account of subsequently published data. *Entomologist's Rec. J. Var.* **128**: 94-98.

—— (2019) Second update to the *checklist of the Lepidoptera of the British Isles*, 2013. *Entomologist's Rec. J. Var.* **131**: 1-7.

—— (2020) Third update to *A checklist of the Lepidoptera of the British Isles*, 2013. *Entomologist's Rec. J. Var.* **132**: 2-7.

Agassiz, D. J. L. and Goater, B. (1984) (exhibits: *Mesapamea secalis* (L.) and *M. secalella* Remm.). *Proceedings and Transactions of the British Entomological and Natural History Society* **17**: 91.

Agassiz, D. J. L., Heckford, R. J. and Langmaid, J. R. (1995) Microlepidoptera review of 1993. *Entomologist's Rec. J. Var.* **107**: 207-220.

—— (1996) Microlepidoptera review of 1994. *Entomologist's Rec. J. Var.* **108**: 177-193.

—— (1997) Microlepidoptera review of 1995. *Entomologist's Rec. J. Var.* **109**: 169-187.

—— (1998) Microlepidoptera review of 1996. *Entomologist's Rec. J. Var.* **110**: 97-114.

Alcock, N. H. and Moffat, C. B. (1901) The natural history of the Irish bats. *Ir. Nat.* **10**: 241-251.

Aldwell, B. (2003) A survey of widespread resident butterflies in County Donegal, Ireland. *Bulletin of the Irish Biogeographical Society* **27**: 187-199.

—— (2003) A survey of local resident butterflies in County Donegal, Ireland. *Bulletin of the Irish Biogeographical Society* **27**: 202-226.

—— (2003) A survey of migrant butterflies in County Donegal, Ireland. *Bulletin of the Irish Biogeographical Society* **27**: 270-280.

Aldwell, B. and Nash, D. W. (2005) The Holly Blue Butterfly *Celastrinus argiolus* (L.) in Co Dublin. *Ir. Nat. J.* **28**: 120-122.

Aldwell, B. and Smyth, F. (2013) The Marsh Fritillary (*Euphydryas aurinia* (Rottemburg, 1775)) (Lepidoptera: Nymphalidae) in Co. Donegal. *Ir. Nat. J.* **32**: 53-63.

—— (2016) *The butterflies of Donegal*. Ashfield Press, Dublin.

Alexander, K. N. A. (2002) The invertebrates of living and decaying timber in Britain and Ireland. A provisional annotated checklist. *English Nature Research Reports* **No. 467**. English Nature, Peterborough.

—— (2007) Goat moth *Cossus cossus* L. (Lepidoptera: Cossidae) in Co Galway. *Ir. Nat. J.* **28**: 420.

Alexander, K. N. A. and Parsons, M. S. (2007) *Dryadaula pactolia* Meyrick (Lepidoptera: Tineidae) a second Irish record. *Ir. Nat. J.* **28**: 420.

Allan, P. B. M. (1951) *Luceria virens* L. *Entomologist's Gazette* **2**: 102.

Allen, A. A. (1965) *Necrodes littoralis* L. (Col., Silphidae) at *Cossus* exudations; with remarks on the present-day incidence of this and some allied species. *Entomologist's mon. Mag.* **101**: 51.

Allen, C. W. (1933) Cinnabar Moth caterpillar's curious place of pupation. *Ir. Nat. J.* **4**: 137.

Allen, D. (1990) The status and distribution of *Eilema lurideola* (Zinck) Common Footman and *E. complana* (L.) Scarce Footman (Lepidoptera) in Northern Ireland. *Ir. Nat. J.* **23**: 337-338.

—— (1990) A record of *Diachrysia orichalcea* (Fabr.) (Lepidoptera) Slender Burnished Brass from Co Down. *Ir. Nat. J.* **23**: 338.

—— (2004) Immigrant records from southern County Wexford, Republic of Ireland. *Atropos* **22**: 64.

—— (2008) Moths. The White Prominent (*Leucodonta bicoloria*) (Denis & Schiffermuller) rediscovered in Ireland in 2008. *Biodiversity Ireland* **Issue 2**: 9.

—— (2013) *Bucculatrix thoracella*: new to Ireland. *Atropos* **50**: 78-79.

Allen, D., Cryer, R. and Gray, M. (1990) The macro-moths (Lepidoptera) of Rathlin Island, Co Antrim. *Ir. Nat. J.* **23**: 339-340.

Allen, D. and Mellon, C. (2004) Moth immigration in south-west Cork, Republic of Ireland. *Atropos* **22**: 56.

—— (2004) Immigrant records from southern Co. Wexford, Republic of Ireland. *Atropos* **22**: 63.

—— (2006) Survey of *Pyrausta sanguinalis* (Linn.) in Northern Ireland in 2005 with notes on other selected species. *Atropos* **28**: 19-25.

—— (2009) *The Argent and Sable* Rheumaptera hastata *(Linnaeus, 1758) in Northern Ireland 2009.* Report for the Northern Ireland Environment Agency.

Allen, D., Mellon, C., Hughes, M., Anderson, R., O'Donnell, M. and Suddaby, D. (2012) Some notes on the foodplants of Manchester Treble-bar *Carsia sororiata* and Beautiful snout *Hypena crassalis* in County Mayo, Ireland. *Atropos* **47**: 75-76.

Allen, D., Mellon, C., Hughes, M., Telfer, M. and Waring, P. (2008) The rediscovery of the White Prominent *Leucodonta bicolaria* (D. & S.) in Ireland in 2008. *Atropos* **35**: 3-8.

Allen, D., Mellon, C., Waring, P., Hughes, M., Telfer, M., Tyner, A., Weir, D. and Tickner, M. (2010) Further research on the White Prominent *Leucodonta bicoloria* (D. & S.) in Ireland, 2009. *Atropos* **40**: 16-24.

Allen, D., Mellon, C., Waring, P., Hughes, M., Telfer, M., Tyner, A., Weir, D. and Tickner, M. (2011) The search for White Prominent *Leucodonta bicoloria* (D. & S.) larvae, 2009, with observations on the larval and pupal stages in captivity. *Atropos* **42**: 32-39.

Allen, D., O'Donnell, M., Nelson, B., Tyner, A., Bond, K. G. M., Bryant, T., Crory, A., Mellon, C., O'Boyle, J., O'Donnell, E., Rolston, T., Sheppard, R., Strickland, P., Fitzpatrick, U. and Regan, E. (2016) *Ireland Red List No. 9: Macro-moths (Lepidoptera)*. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Allen, D. and Thompson, R. (2001) Significant records of macro-moths in Northern Ireland (1990-Feb. 2001) *Atropos* **14**: 35-41. (35 species reviewed with confirmation/first Irish records of *Operophtera fagata*, *Watsonalla cultraria*, *Hydrellia flammeolaria*, *Apamea scolopacina* and *Schrankia taenialis*)

Allen, D. and Tickner, M. (2004) *Pyrausta sanguinalis* in Northern Ireland. *Atropos* **20**: 63-64.

Allen, D., Woodrow, W., Mellon, C., Hughes, M. and Nelson, B. (2012) A selection of invertebrates closely associated with Marsh Fritillary *Euphydryas aurinia* (Rott.) habitat and Devil's-bit Scabious *Succisa pratensis* in Ireland. *Atropos* **46**: 48-55.

Allen, J. E. R. (1892) (Notes on collecting, etc.) - Galway. *Entomologist's Rec. J. Var.* **3**: 287.

—— (1892) Notes of the Season - Galway. *Entomologist's Rec. J. Var.* **3**: 229.

—— (1893) The hybernation of *Vanessa cardui*. *Entomologist's Rec. J. Var.* **4**: 241.

—— (1893) (Notes of the Season) - Galway. *Entomologist's Rec. J. Var.* **4**: 205.

—— (1894) (Notes on collecting) - Easter in Connemara. *Entomologist's Rec. J. Var.* **5**: 224.

—— (1894) (Notes of the Season 1894). *Entomologist's Rec. J. Var.* **5**: 299.

—— (1894) *Plusia festucae*. *Entomologist* **27**: 270.

—— (1894) Varieties of *Zygaena pilosellae* and *Bryophila muralis* at Galway. *Entomologist* **27**: 270.

—— (1897) On the occurrence of *Tephrosia crepuscularia* (*biundularia*) in Ireland. *Entomologist's Rec. J. Var.* **9**: 322-323.

—— (1901) *Oporabia autumnata* at home. *Entomologist* **34**: 43-45.

—— (1905) *Manduca atropos* in Ireland. *Entomologist's Rec. J. Var.* **17**: 22.

—— (1905) *Oporabia filigrammaria* in Ireland. *Entomologist's Rec. J. Var.* **17**: 336-337.

—— (1905) Larvae of *Oporabia autumnata*. *Entomologist's Rec. J. Var.* **17**: 339.

—— (1906) *Oporabia christyi*, Prout: a distinct species. *Entomologist's Rec. J. Var.* **18**: 85-89.

—— (1909) Lepidopterological notes from Co. Fermanagh. *Entomologist's Rec. J. Var.* **20**: 29-30.

—— (1910) (*Abraxas grossulariata*). *Entomologist* **43**: 230.

—— (1911) The specific distinctness of *Oporabia christyi*. *Entomologist's Rec. J. Var.* **23**: 79-82.

—— (1911) Occasional notes on the Genus *Eupithecia* in Co. Fermanagh. *Entomologist's Rec. J. Var.* **24**: 33-34.

—— (1914) (*Dianthoecia* spp.). *Entomologist* **47**: 111.

—— (1915) Records of Lepidoptera from Enniskillen. *Ir. Nat.* **24**: 14.

Allen, J. E. R. (1915) (*Larentia flavicinctata*). *Entomologist* **48**: 127.

Anderson, J. A. (1960) Irish county records - (Lepidoptera). *Ir. Nat. J.* **13**: 142-143 .

Anderson, R. (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Andrews, W. (1856) On the occurrence of *Gonepteryx rhamni* and *Thecla betulae* in Kerry. *Proceedings of the Natural History Society of Dublin* **1**: 28.

—— (1856) (Moths in granaries). *Proceedings of the Natural History Society of Dublin* **1**: 23.

—— (1857) (*G. rhamni* and *T. betulae*). *Proceedings of the Natural History Society of Dublin* **2**: 17.

—— (1866) Notes on Irish Lepidoptera. *Proceedings of the Natural History Society of Dublin* **5**: 20-22.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Asher, J., Warren, M., Fox, R., Harding, P., Jeffcoate, G. and Jeffcoate, S. (2001) *The millennium atlas of butterflies in Britain and Ireland.* Oxford University Press, Oxford. 433pp.

Austin, A. (2000) The Dublin Naturalists' Field Club Report for 1998. *Ir. Nat. J.* **26** (1999): 207-208. (Butterfly Seminar)

B., C. E. (1934) The "Chalk Hill Blue" Butterfly is not an Irish insect! *Ir. Nat. J.* **5**: 73-74.

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10.

Badmin, J. S. (2006) 2005 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **19**: 165-172. (Clarke, J.: several records; Hayward, R.: *Lithosia quadra*, *Eriogaster lanestris*, *Clostera pigra*, *Acronicta euphorbiae* spp. *myricae*; R. J. Heckford: *Xanthorhoe montanata*)

Bailey, K. E. J., Baker, R. R., Brakefield, P. M., Bretherton, R. F., Emmet, A. M., Lear, N. W., Melling, T., Pollard, E., Porter, K. J., Pratt, C. R., Shreeve, T. G., Warren, M. S., Willmott, K. J. and Wilson, A. (1989) Nymphalidae. Pp 180-285. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(1). *Hesperiidae-Nymphalidae. The butterflies.* Harley Books, Colchester. (literature references for British and Irish butterflies are given on pp 286-301)

Baker, B. R. (1969) The evolution of the migratory habit in butterflies. *Journal of Animal Ecology* **38**: 703-746.

—— (1978) A first look at Kerry and Clare. *Entomologist's Rec. J. Var.* **90**: 116-121.

—— (1984) The British clearwing moths (Sesiidae). *Proceedings and Transactions of the British Entomological and Natural History Society* **17**: 103-109.

—— (1985) Sesiidae. Pp 369-388. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

Baker, G. T. Bethune (1893) (*Arctia mendica*). *Entomologist's mon. Mag.* **29**: 94.
—— (1895) (*Aporophyla lutulenta*). *Entomologist's mon. Mag.* **31**: 101.
—— (1918) Gleanings from Dartmoor: with observations on Dr Verity's conclusions on races of British butterflies. *Entomologist's Rec. J. Var.* **30**: 177-187.
Balletto, E., Barbero, F., Bonelli, S., Casacci, L. P. and Dapporto, L. (2020) Stabilisation of some names of European butterflies (Lepidoptera: Pieridae) in their prevailing usage. *Zootaxa* **4780**: 387-395. (*Euchloe ausonia* var. *esperi* Kirby, 1871 in National Museum of Ireland)
Bankes, E. R. (1892) *Eupithecia dodoneata* in Ireland. *Entomologist's Rec. J. Var.* **3**: 19.
—— (1894) *Lita instabilella*, Dgl., and its nearest British allies. *Entomologist's mon. Mag.* **30**: 80-83, 125-128.
—— (1896) Distribution of *Tortrix viburniana*. *Entomologist's Rec. J. Var.* **8**: 17-18.
—— (1899) *Lithocolletis concomitella*, sp. n., and its nearest allies. *Entomologist's mon. Mag.* **35**: 241-255.
—— (1900) *Diplodoma marginepunctella*, Stph., in Dumbartonshire, N.B. *Entomologist's mon. Mag.* **36**: 132.
—— (1901) Notes on *Metzneria littorella*, Dgl. *Entomologist's mon. Mag.* **37**: 121-124.
—— (1909) *Gelechia vicinella*, Dgl. conspecific with *G. leucomelanella*, Z. *Entomologist's mon. Mag.* **45**: 263-267.
—— (1912) Stray notes on *Monopis crocicapitella*, Clms., and *M. ferruginella*, Hb. *Entomologist's mon. Mag.* **48**: 39-44.
Baring, C. (1915) Notes on the fauna and flora of Lambay. *Ir. Nat.* **24**: 68-71.
—— (1918) Lepidoptera of Lambay. *Ir. Nat.* **27**: 65.
—— (1921) *Acherontia atropos* on Lambay. *Ir. Nat.* **30**: 135.
Barker, -. (1893) (*Artica mendica*). *Entomologist* **26**: 143. (initials not known)
Barkham, P. (2010) *The Butterfly Isles. A summer in search of our emperors and admirals.* Granta, London. 372pp.
Barnett, R. J. (1982) A comparative study of *Amphipyra pyramidea pyramidea* (L.) and *A. berbera svenssoni* Fletcher (Lepidoptera: Noctuidae). *Entomologist's Gazette* **33**: 169-172.
Barraclough, W. (1926) (*Melitaea aurinia*). *Entomologist* **59**: 47.
Barrett, C. G. (1861) *Dianthoecia capsophila*. *Entomologist's Weekly Intelligence* **9**: 116.
—— (1861) Irish captures. *Entomologist's Weekly Intelligence* **10**: 11-14.
—— (1861) Amateur dealer. *Entomologist's Weekly Intelligence* **10**: 159.
—— (1864) Lepidoptera at Rannoch in July. *Entomologist's mon. Mag.* **1**: 44-46.
—— (1872) Notes on species of Tineina feeding upon fungi. *Entomologist's mon. Mag.* **8**: 250-251.
—— (1873) Notes on British Tortrices. *Entomologist's mon. Mag.* **9**: 266-267.
—— (1874) Notes on British Tortrices. *Entomologist's mon. Mag.* **11**: 12-15, 132-134.
—— (1885) Notes on the Lepidoptera of Belfast. *Entomologist's mon. Mag.* **22**: 124-126.
—— (1888) Climatic and local variation in our butterflies. *Entomologist's mon. Mag.* **25**: 79-83.
—— (1888) Linen injured by *Agrotis* larvae. *Entomologist's mon. Mag.* **25**: 220-222.

Barrett, C. G. (1888) Notes on some very old specimens of Lepidoptera. *Entomologist's mon. Mag.* **25**: 223-225.

—— (1890) Identity of *Phycis adornatella* and *P. subornatella*. *Entomologist's mon. Mag.* **26**: 20-22.

—— (1890) (Identity of *Dianthoecia carpophaga* and *D. capsophila*). *Entomologist's mon. Mag.* **26**: 90.

—— (1891) White form of *Diaphora mendica* ♂. *Entomologist's mon. Mag.* **27**: 303.

—— (1891) Interesting variation of *Pieris napi* in Ireland. *Entomologist's mon. Mag.* **27**: 329.

—— (1891) Varieties of British butterflies. *Entomologist's mon. Mag.* **27**: 329-330.

—— (1891) (Pale form of male *Spilosoma mendica*). *Entomologist's Rec. J. Var.* **2**: 252.

—— (1892) *Noctua festiva* and its varieties. *Entomologist's mon. Mag.* **28**: 47-48.

—— (1893-1907) *The Lepidoptera of the British Islands: a descriptive account of the families, genera, and species indigenous to Great Britain and Ireland, their preparatory states, habits, and localities.* 11 volumes. L. Reeve, London.

—— (1894) The British species of the Genus *Psyche*, and its allies. *Entomologist's mon. Mag.* **30**: 265-269.

—— (1896) *Mixodia palustrana*, Z., in Ireland. *Entomologist's mon. Mag.* **32**: 280.

—— (1897) Occurrence in Ireland of *Platyptilia tesseradactyla*, L. = *fischeri*, Zell. *Entomologist's mon. Mag.* **33**: 25-26.

—— (1897) Food-plants of *Platyptilia tesseradactyla* L. *Entomologist's mon. Mag.* **33**: 62.

—— (1897) A plume-moth new to the British Isles. *Ir. Nat.* **6**: 43.

—— (1899) On the claims of *Dasydia torvaria*, Hb., and *Mniophila cineraria*, Hb., to be considered British species. *Entomologist's mon. Mag.* **35**: 255-258.

—— (1900) Occurrence of *Zelleria phillyrella*, Milliere, in Ireland. *Entomologist's mon. Mag.* **36**: 4-6.

Barrington, R. (1994) Breeding *Maniola jurtina* L. ab. *addenda* Mosley (Lep.: Satyridae). *Entomologist's Rec. J. Var.* **106**: 13-15.

—— (1999) The influence of childhood on an entomologist and a very rare fritillary. *Entomologist's Rec. J. Var.* **111**: 261-265, plate A. (including *Argynnis aglaja* L. ab. *wimani* Holmgren)

—— (1999) The genetics of the melanic ab. *nigricans* Culot of *Melanargia galathea* L. (Lep.: Nymphalidae: Satyrinae). *Entomologist's Rec. J. Var.* **111**: 269-271, plates B and C. (just mentions that the species was brought on a trip to western Ireland)

—— (2005) Notes on Pieris napi (L.) ssp. *thomsoni* (Warren) ab. *fasciata* (Muller and Kautz) and f. *flava* (Kane) (Green Veined White). *Entomologist's Rec. J. Var.* **117**: 51-61.

—— (2012) Notes on the distribution and ecology of the Gatekeeper Butterfly *Pyronia tithonus* (L.) ab. *excessa* Tutt in Britain and Europe (Lep.: Nymphalidae). *Entomologist's Rec. J. Var.* **124**: 185-194.

Barrington, R. D. G. (1996) 1995 annual exhibition. British butterflies. *British Journal of Entomology and Natural History* **9**: 207-210. (Porter, J.: races of Irish butterflies)

—— (2002) 2001 Annual Exhibition. British butterflies. *British Journal of Entomology and Natural History* **15**: 152-156. (Harmer, A. S.: *Aphantopus hyperantus*, *Polyommatus icarus*)

Barrington, R. D. G. (2005) 2004 Annual Exhibition. British butterflies. *British Journal of Entomology and Natural History* **18**: 171-175. (Halsey, J.: *Polyommatus icarus* spp *mariscolore*)

Barrington, R. M. (1900) *Acherontia atropos* off the Wexford Coast. *Ir. Nat.* **9**: 233.

Barrington, R. M. and Moffat, C. B. (1901) Wasps in County Wicklow. *Ir. Nat.* **10**: 197-201.

Barron, S. (2019) Marigold Shark *Cucullia calendulae* Treitschke 1835 update. *Atropos* **63**: 8-11.

Bath, W. Harcourt (1894) Observations on *Vanessa c-album*. *Entomologist* **26**: 338-342.

Battersby, F. I. (1868) Variety of *Pyrameis atalanta*. *Entomologist* **4**: 131-132.

—— (1868) *Dianthoecia conspersa* in Ireland. *Entomologist* **4**: 136.

—— (1870) *Diacanthoecia cucubali* and *Hecatera serena* in Westmeath. *Entomologist* **5**: 148.

—— (1870) Second Brood of *Notodonta ziczac*. *Entomologist* **5**: 183.

—— (1870) *Apamea ophiogramma*. *Entomologist* **5**: 183.

—— (1873) *Cucullia absynthii* and *Apamea ophiogramma* in Ireland. *Entomologist* **6**: 516-517.

—— (1875) *Sarrothripus revayanus* at Killarney. *Entomologist* **8**: 55.

Battersby, F. J. (1868) *Chortobius davus* and monster ichneumon in Co. Westmeath. *Entomologist* **4**: 101.

—— (1872) Lepidoptera of Ireland. *Entomologist* **6**: 101-102.

—— (1887) *Bombyx quercus* or *callunae*. *Entomologist* **20**: 109-110.

—— (1903) *Metitaea aurinia* var *hibernica*. *Entomologist* **36**: 188-189.

—— (1905) Abundance of *Pieris brassicae* in West Meath. *Entomologist* **38**: 238.

Battersby, W. G. (1865) *Acronycta myricae*, &c. in Ireland. *Entomologist* **2**: 251.

Baynes, E. S. A. (1950) Irish *Argynnis euphrosyne*, Linn. *Entomologist* **83**: 105-108.

—— (1951) Albino *Maniola jurtina* Linn. subsp. *iernes* Graves. *Ir. Nat. J.* **10**: 135.

—— (1951) The moth *Deileptenia ribeata* Cl. in Ireland. *Ir. Nat. J.* **10**: 136.

—— (1952) A new form of *Selenia bilunaria* Esper. *Entomologist's Rec. J. Var.* **64**: 5-6.

—— (1952) A rare aberration of *Deuteronomos alniaria* Linn. *Entomologist's Rec. J. Var.* **64**: 24-25.

—— (1952) A gynandromorph of *Bupalus piniaria* L. *Entomologist's Rec. J. Var.* **64**: 290.

—— (1952) *Dysstroma truncata* Hufn. in the Kerry Mountains. *Entomologist's Rec. J. Var.* **64**: 351-352.

—— (1952) *Eupithecia pulchellata* in Ireland. *Entomologist* **85**: 270.

—— (1953) *Polychrisia moneta* Fabr., (Golden Plusia) in Ireland. *Entomologist's Gazette* **4**: 286.

—— (1953) A remarkable aberration of *Arctia caja* L. *Entomologist's Rec. J. Var.* **65**: 66-67.

—— (1953) *Leucania unipuncta* Haw. at light. *Entomologist's Rec. J. Var.* **65**: 258.

—— (1953) *Polychrisia moneta* Fabr., resident in Ireland. *Ir. Nat. J.* **11**: 52.

—— (1954) Squeaking pupae. *Bulletin of the Amateur Entomologists' Society* **13**: 12. (*Callophrys rubi* in Co. Kerry)

—— (1954) *Polychrisia moneta* Fabr., (Golden Plusia) in Ireland. *Entomologist's Gazette* **5**: 10.

Baynes, E. S. A. (1954) *Daphnis nerii* L. in Ireland. *Entomologist's Gazette* **5**: 81.
—— (1954) *Polychrisia moneta* Fabr. resident in Ireland. *Ir. Nat. J.* **11**: 136.
—— (1954) *Daphnis nerii* L. in Ireland. *Entomologist's Gazette* **5**: 10.
—— (1956) Egg-laying habits of *Nyssia zonaria* Schiff. *Entomologist's Rec. J. Var.* **68**: 229-230 .
—— (1957) The Lepidoptera of Glenageary, Co. Dublin. *Entomologist's Gazette* **8**: 151-160.
—— (1957) *Vanessa huntera* Fab. in the British Isles. *Entomologist's Rec. J. Var.* **69**: 133.
—— (1957) The Lepidoptera of Tory Island, Co. Donegal. *Entomologist* **90**: 310-313.
—— (1957) Report on migrant insects in Ireland for 1956. *Ir. Nat. J.* **12**: 145-146.
—— (1958) *Aricia agestis* Schiff. in Ireland? *Entomologist's Rec. J. Var.* **70**: 183-184.
—— (1958) Migrant Lepidoptera in Co. Dublin, 1958. *Entomologist's Rec. J. Var.* **70**: 250-252.
—— (1958) Supplement to a list of the Lepidoptera of Tory Island, Co. Donegal. *Entomologist* **91**: 207.
—— (1958) Immigration of Diamond-bodied Moths, *Plutella maculipenius* (Curb). *Ir. Nat. J.* **12**: 334.
—— (1959) Supplement to the Lepidoptera of Glenageary, Co. Dublin. *Entomologist's Gazette* **10**: 132-133.
—— (1959) *Vanessa atalanta* Linn., *V. cardui* Linn. and *Nymphalis antiopa* Linn. in Ireland. *Entomologist's Rec. J. Var.* **71**: 29.
—— (1959) An Irish sub-species of *Chiasma clathrata* L. (Lep. Geometridae). *Entomologist* **92**: 20-21.
—— (1959) Irish county records (Lepidoptera). *Ir. Nat. J.* **13**: 81-83.
—— (1959) Hermaphrodite specimen of the Poplar Hawkmoth *Laothoe populi* L. (Lep). *Ir. Nat. J.* **13**: 102.
—— (1960) *Euproctis similis* Fuessly (Lep., Lymantriidae) in Ireland. *Entomologist's Gazette* **11**: 234.
—— (1960) An hermaphrodite *Anthocharis cardamines* L. (Lep., Pieridae). *Entomologist's Gazette* **11**: 68.
—— (1960) Irish records of the Humming-bird Hawk-Moth in 1959. *Entomologist's Gazette* **11**: 114.
—— (1960) Corrigenda: Irish county records (Lepidoptera). *Ir. Nat. J.* **13**: 128.
—— (1960) An Irish sub-species of *Chiasma clathrata* L. (Lep. Geometridae). *Ir. Nat. J.* **13**: 169-170.
—— (1960) Hermaphrodite Orange Tip Butterfly. *Ir. Nat. J.* **13**: 170.
—— (1960) *Euproctis similis* Fuessly (Yellow-Tail Moth) in Ireland (Lep. Lymantriidae). *Ir. Nat. J.* **13**: 189-190.
—— (1960) *A list of Irish butterflies*. National Museum of Ireland. Stationery Office, Dublin. 13pp.
—— (1961) (Additional note on Irish County Records (Lepidoptera)). *Ir. Nat. J.* **13**: 214.
—— (1961) Addenda to report on migrant insects for 1960. *Ir. Nat. J.* **13**: 216.
—— (1962) A new aberration of *Luperina testacea* (Schiffermuller) (Lep., Apameinae). *Entomologist's Gazette* **13**: 21.

Baynes, E. S. A. (1962) The Lepidoptera of Glenageary, Co. Dublin. Supplement II. *Entomologist's Gazette* **13**: 92-93.
—— (1963) Corrigendum (*Acherontia atropos* L.). *Ir. Nat. J.* **14**: 104.
—— (1963) *Thecla betulae* L. (Lep. , Lycaenidae) in Ireland. *Entomologist's Gazette* **14**: 124.
—— (1964) *A revised catalogue of Irish Macrolepidoptera (Butterflies and moths).* E. W. Classey, Middlesex.
—— (1965) The Lepidoptera of Glenageary, Co. Dublin. Supplement III. *Entomologist's Gazette* **16**: 7-8.
—— (1965) Irish Lepidoptera: Some recent discoveries. *Ir. Nat. J.* **15**: 13-16.
—— (1965) Report on migrant insects in Ireland for 1964. *Ir. Nat. J.* **15**: 33-35.
—— (1965) A plume moth new to Ireland. *Ir. Nat. J.* **15**: 109.
—— (1966) Report on migrant insects in Ireland for 1965. *Ir. Nat. J.* **15**: 157-159.
—— (1967) Report on migrant insects in Ireland for 1966. *Ir. Nat. J.* **15**: 277-280.
—— (1968) Report on migrant insects in Ireland for 1967. *Ir. Nat. J.* **16**: 29-31.
—— (1968) The Lepidoptera of Glenageary, Co. Dublin. Supplement IV. *Entomologist's Gazette* **19**: 198.
—— (1969) Migrant Lepidoptera in Ireland. *Entomologist's Gazette* **20**: 46.
—— (1970) *Supplement to a revised catalogue of Irish Macrolepidoptera (butterflies and moths).* E. W. Classey, Middlesex.
Beaumont, H. E. (2001) 2000 Annual Exhibition.British Microlepidoptera. *British Journal of Entomology and Natural History* **14**: 145-149. (Clancy, S.: Burren species; Harper, M. W.: *Nematopogon magna*)
—— (2004) 2003 Annual Exhibition. British Micro-Lepidoptera. *British Journal of Entomology and Natural History* **17**: 155-161. (Webb, D.: Burren and Aran Islands)
—— (2005) 2004 Annual Exhibition. British Micro-Lepidoptera. *British Journal of Entomology and Natural History* **18**: 183-189. (Heckford, R. J.: several species)
Beavan, S. D. and Heckford, R. J. (2011) *Stigmella dryadella* (Hofmann) (Lep.: Nepticulidae) larvae in April and May. *Entomologist's Rec. J. Var.* **123**: 160-161.
—— (2012) Discovery of the larva of *Gynnidomorpha permixtana* ([Denis & Schiffermüller]), 1775) (Lepidoptera: Tortricidae) in the British Isles and a consideration of the species' distribution. *Entomologist's Gazette* **63**: 69-83.
Beirne, B. P. (1933) The Large Thorn Moth in Co. Wexford: an addition to the Irish List. *Ir. Nat. J.* **4**: 137.
—— (1936) Macrolepidoptera of Ireland. *Entomologist* **69**: 80.
—— (1937) Note on *Mnesipatris filicivora* Meyr. *Entomologist* **70**: 195-196.
—— (1938) Macrolepidoptera from Ireland. *Entomologist* **71**: 20-21.
—— (1938) Microlepidoptera from Ireland. *Entomologist* **71**: 193-197, 228-231, 253-256.
—— (1938) New Irish Microlepidoptera. *Ir. Nat. J.* **7**: 12-15.
—— (1939) *Blastobasis lignea* Wals. in Ireland. *Entomologist* **72**: 23.
—— (1939) Tineina from Ireland. *Entomologist* **72**: 112-113.
—— (1939) Microlepidoptera from Ireland. *Ir. Nat. J.* **7**: 218.
—— (1940) *Stenoptilia saxifragae*, Fletcher, in Ireland. *Entomologist's Rec. J. Var.* **52**: 61-62.

Beirne, B. P. (1940) New Irish Microlepidoptera. *Ir. Nat. J.* **7**: 289.
—— (1941) The life-history of *Stenoptilia saxifragae*, Fletcher. *Entomologist's Rec. J. Var.* **53**: 85-86, plate IV.
—— (1941) Four year's captures of insects in light-traps in Ireland. *Entomologist's Rec. J. Var.* **53**: 44-50.
—— (1941) Captures of insects in Ireland. *Entomologist's Rec. J. Var.* **53**: 80-81.
—— (1941) A list of the Microlepidoptera of Ireland. *Proceedings of the Royal Irish Academy* **47**B: 53-147.
—— (1942) Introduced Irish Lepidoptera. *Entomologist's Rec. J. Var.* **54**: 131.
—— (1942) The food-plant of *Blastobasis lignea*, Wals. *Entomologist's Rec. J. Var.* **54**: 131-132.
—— (1942) The life-history of *Agonopterix* (*Depressaria*) *costosa*, Haw. *Entomologist's Rec. J. Var.* **54**: 132-133.
—— (1942) Notes on some lepidopterous pests on fruit trees, and their parasites, in Ireland during 1941. *Economic Proceedings of the Royal Dublin Society* **3**: 107-118.
—— (1942) 'A List of the Microlepidoptera of Ireland'. *Ir. Nat. J.* **8**: 16-17.
—— (1942) The biology and natural control of the Larch Shoot Moth, *Argyresthia laevigatella*, H-S. *Economic Proceedings of the Royal Dublin Society* **3**: 130-149, 27 figs.
—— (1942) Some notes on the Irish Microlepidoptera. *Entomologist* **75**: 81-87, 101-105.
—— (1943) Some observations on the biology and control of the Raspberry Moth (*Incurvaria rubiella* Bjerk.) in Ireland. *Economic Proceedings of the Royal Dublin Society* **3**: 221-226.
—— (1943) *Argyresthia conjugella*, Zell. and other lepidopterous pests in Ireland during 1942. *Economic Proceedings of the Royal Dublin Society* **3**: 163-171, 3 figs.
—— (1943) The biology and control of the Small Ermine Moths (*Hyponomeuta* spp.) in Ireland. *Economic Proceedings of the Royal Dublin Society* **3**: 191-220.
—— (1944) New records for Irish Lepidoptera. *Ir. Nat. J.* **8**: 147-149.
—— (1944) The origin of the maritime Lepidoptera of Lough Neagh. *Ir. Nat. J.* **8**: 167-171, 6 figs.
—— (1945) The Oleander Hawk-moth in Ireland. *Ir. Nat. J.* **8**: 267.
—— (1945) The male genitalia of the British Stigmellidae (Nepticulidae) (Lep.). *Proceedings of the Royal Irish Academy* **50**B: 191-218.
—— (1945) Irish Lepidoptera collecting in 1944. *Entomologist's Rec. J. Var.* **57**: 51-53, 63-66, 86-89.
—— (1946) The genitalia of the *Juncus*-feeding species of *Eupista* (Lep). *Entomologist's Rec. J. Var.* **58**: 13-14, plate 1.
—— (1947) The origin and history of the British Macro-Lepidoptera. *Transactions of the Royal Entomological Society of London* **98**: 273-372.
—— (1947) The effects of human activities on the distribution and abundance of the Lepidoptera. *Entomologist's Rec. J. Var.* **59**: 37-42.
—— (1948) *Eublemma ostrina*, *E. parva* and other Lepidoptera in Ireland in 1947. *Entomologist* **81**: 132-136.

Beirne, B. P. (1950) The habitat-distribution of the British maritime Lepidoptera. *Journal of the Society for British Entomology* **3**: 121-133.

—— (1952) It happened at.... collecting in the Burren District. *Entomologist's Gazette* **3**: 2.

—— (1952) It happened at.... *Entomologist's Gazette* **3**: 42. (records include *Pontia daplidice*)

—— (1952) Some critical comments on the study of British Lepidoptera. *Entomologist's Gazette* **3**: 197-210.

—— (1952) *British pyralid & plume moths*. Frederick Warne, London.

—— (1953) The curious entomological activities of the Hon. R. E. Dillon. *Entomologist's Gazette* **4**: 67-72.

—— (1954) *British pyralid & plume moths*. Frederick Warne, London.

—— (1955) Natural fluctuations in abundance of British Lepidoptera. *Entomologist's Gazette* **6**: 21-52.

Beirne, B. P. and Lisney, A. A. (1940-1941) Irish Lepidoptera in 1939. *Entomologist* **73**: 243-248. **74**: 13.

Benington, A. (1971) Convolvulus Hawk Moth, *Herse convolvuli* in the Lagan area. *Ir. Nat. J.* **17**: 26.

Bennis, E. H. (1909) Late abundance of *Pyrameis atalanta*. *Ir. Nat.* **18**: 55.

Bewley, E. T. (1899) *Colias edusa* in Co. Wexford. *Ir. Nat.* **8**: 229.

Bibby, T. J., Bretherton, R. F., Dempster, J. P., Emmet, A. M., Feltwell, J. S. E., Pratt, C. R. and Warren, M. S. (1989) Pieridae. Pp 82-117. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(1). *Hesperiidae-Nymphalidae. The butterflies*. Harley Books, Colchester.

Bicknell, P. (1910) Entomology in Ireland. *Entomologist* **43**: 120.

Bingham, J. N. (1922) Combats of butterflies. *Ir. Nat.* **31**: 81.

Bingham, R. W. (1947) Eyed Hawk-Moth in Co. Tyrone. *Ir. Nat. J.* **9**: 99.

Birchall, E. (1856) *Anthrocera minos* in abundance. *Entomologist's Weekly Intelligence* **1**: 114.

—— (1856) *Nepticula acetosae* (Lep.). *Entomologist's Weekly Intelligence* **1**: 132-133.

—— (1857) *Anthorocera minos*. *Entomologist's Weekly Intelligence* **2**: 109.

—— (1858) On additions to the Irish Lepidoptera. *Proceedings of Dublin University Zoological and Botanical Association* **1**: 50-52.

—— (1858) *Bankia bankiana*. *Entomologist's Weekly Intelligence* **4**: 99.

—— (1858) Captures in Ireland during 1858. *Entomologist's Weekly Intelligence* **5**: 36.

—— (1859) (*Hydrelia banksiana*). *Proceedings of the Natural History Society of Dublin* **2**: 138.

—— (1859) On additions to the Irish Lepidoptera. *Proceedings of Dublin University Zoological and Botanical Association* **1**: 50-52.

—— (1859) List of Lepidoptera captured in Ireland during the Summer of 1858. *Proceedings of Dublin University Zoological and Botanical Association* **1**: 224-226.

—— (1859) Captures near Dublin, in July. *Entomologist's Weekly Intelligence* **6**: 156.

—— (1859) *Sphinx convolvuli*. *Entomologist's Weekly Intelligence* **6**: 179.

—— (1859) Lepidoptera near Dublin in August. *Entomologist's Weekly Intelligence* **6**: 196.

—— (1859) *Bankia bankiana*. *Entomologist's Weekly Intelligence* **6**: 107.

Birchall, E. (1860) (*Hadena rectilinea*). *The Entomologist's Annual* **1860**: 140.
—— (1860) (*Bankia bankiana*). *The Entomologist's Annual* **1860**: 141.
—— (1861) *Dianthoecia capsophila*. *Entomologist's Weekly Intelligence* **9**: 109-110.
—— (1864) *Gonepteryx rhamni* in Ireland. *Entomologist* **2**: 97-98.
—— (1864) *Crymodes templi* at Howth. *Entomologist* **2**: 133.
—— (1865) *Dianthoecia capsophila* bred. *Entomologist* **2**: 255.
—— (1865) *Dianthoecia barrettii* again taken. *Entomologist* **2**: 255.
—— (1865) Larvae of *Lithosia caniola. Entomologist* **2**: 255-256.
—— (1865) Lepidoptera at Howth. *Entomologist* **2**: 256.
—— (1865) Notes on the Lepidoptera of Ireland. *Entomologist's mon. Mag.* **1**: 270-272.
—— (1866) *Hepialus humuli*. *Entomologist* **3**: 71-72.
—— (1866) *Eupithecia constrictata* in Ireland. *Entomologist* **3**: 152.
—— (1866-1867) The Lepidoptera of Ireland. *Entomologist's mon. Mag.* **3**: 2-6, 31-37, 57-61, 73-76, 105-109, 128-131, 145-148, 169-173, 1 plate.
—— (1866) Catalogue of the Lepidoptera of Ireland. *Proceedings of the Natural History Society of Dublin* **5**: 57-85, 1 colour plate.
—— (1866) Occurrence of *Lithosia caniola* at Waterford. *Entomologist's mon. Mag.* **3**: 110.
—— (1867) The Irish locality for *Pterophorus isodactylus*. *Entomologist's mon. Mag.* **4**: 39.
—— (1867) Additions to List of Irish Lepidoptera. *Entomologist's mon. Mag.* **4**: 91.
—— (1867) The Irish List of Lepidoptera. *Entomologist* **3**: 191-193.
—— (1867) Irish insect-hunting grounds. I. The Hill of Howth. *Entomologist* **3**: 205-209.
—— (1867) Irish insect-hunting grounds. II. Galway. *Entomologist* **3**: 235-238.
—— (1867) Irish insect-hunting grounds. III. Killarney. *Entomologist* **3**: 249-255.
—— (1867) *Dianthoecii barrettii*. *Entomologist* **3**: 301.
—— (1868) Captures at Howth. *Entomologist* **4**: 97.
—— (1868) Additions to the Lepidoptera of Ireland. *Entomologist's mon. Mag.* **4**: 283.
—— (1869) *Cirrhoedia xerampelina* in Ireland. *Entomologist* **4**: 263.
—— (1869) *Cirroedia xerampelina* in the Isle of Man. *Entomologist* **4**: 324.
—— (1869) Autumnal brood of *Dianthoecia capsophila*. *Entomologist* **4**: 354.
—— (1869) Note on *Lithosia caniola*. *Entomologist's mon. Mag.* **6**: 67-68.
—— (1870) *Macroglossa bombiliformis* in Connemara. *Entomologist* **5**: 81.
—— (1870) *Dianthoecia barrettii*. *Entomologist* **5**: 57.
—— (1870) Irish insect-hunting grounds. Connemara. *Entomologist* **5**: 67-70.
—— (1870) Irish insect-hunting grounds. No. 6. The County Wicklow. *Entomologist* **5**: 119-123.
—— (1871) Additions to the Lepidoptera of Ireland. *Entomologist's mon. Mag.* **8**: 6-8.
—— (1873) "The origin and distribution of the insects of the British Isles". *Entomologist* **6**: 349-351.
—— (1873) *Lasiommata megaera*. *Entomologist* **6**: 521.
—— (1873) *Xanthia aurago*. *Entomologist* **7**: 21.
—— (1873) The Lepidoptera of Ireland. *Entomologist's mon. Mag.* **10**: 153-156.
—— (1874) *Notodonta bicolora* in Ireland. *Entomologist's mon. Mag.* **10**: 230.
—— (1878) *Argynnis selene* in Ireland. *Entomologist's mon. Mag.* **14**: 211.

Bird, S., Raper, C., Dale-Skey, N. and Salisbury, A. (2020) First records of two natural enemies of Box Tree Moth, *Cydalima perspectalis* (Lepidoptera: Crambidae) in Britain. *British Journal of Entomology and Natural History* **33**: 67-70.

Blackith, R. E. and Blackith, R. M. (1990) Insect infestations of small corpses. *Journal of Natural History* **24**: 699-709. (Dipt., Hym., Lep.)

Blackshaw, E. P. and Moore, J. P. (1983) Hedgerow damage by Small Ermine Moth. *Agriculture in Northern Ireland* **58**: 275-276.

Bland, K. P. (1987) The voltinism of *Cnephasia conspersana* Dougl. (Lepidoptera: Tortricidae) in the Inner Hebrides. *Entomologist's Rec. J. Var.* **99**: 45.

—— (1996) Elachistidae. Pp 339-410, plates 16-17. *In* Emmet, A. M. (ed.) *The moths and butterflies of Great Britain and Ireland.* **3**. Harley Books, Colchester.

—— (2002) Autostichidae (Symmocidae). Pp 188-195. *In* Emmet, A. M. and Langmaid, J. R. (eds) *Oecophoridae - Scythrididae (excluding Gelechidae). The moths and butterflies of Great Britain and Ireland* **4**(1). Harley Books, Colchester.

—— (2008) The distribution of *Leucoptera orobi* (Stainton, 1870) in Britain and its separation from *L. lathyrifoliella* (Stainton, 1866) (Lepidoptera: Lyonetiidae). *Entomologist's Gazette* **59**: 139-143.

—— (ed.) (2014) *The moths and butterflies of Great Britain and Ireland.* **Volume 5** (Part 1, the Tortricinae & Chlidanotinae, and Part 2, the Olethreutinae). Brill, Leiden.

Bland, K. P., Corley, M. F. V., Emmet, A. M., Heckford, R. J., Huemer, P., Langmaid, J. R., Palmer, S. M., Parsons, M. S., Pitkin, L. M., Rutten, T., Sattler, K., Simpson, A. N. B. and Sterling, P. H. (2002) Gelechiidae. Pp 10-251, plates 1-6. *In* Emmet, A. M. and Langmaid, J. R. (eds) *Gelechiidae. The moths and butterflies of Great Britain and Ireland* **4**(2). Harley Books, Colchester.

Blokland, T. J. (1981) Report of a Pale Clouded Yellow: *Colias hyale* L. and other migrant Lepidoptera in Ireland in 1980. *Entomologist's Rec. J. Var.* **93**: 218.

Bonaparte-Wyse, L. H. (1894) (Notes on collecting, etc.). *Entomologist's Rec. J. Var.* **5**: 153.

—— (1895) Variation of *Vanessa urticae* in Co. Waterford, Ireland. *Entomologist* **28**: 57.

—— (1895) *Acherontia atropos* in Co. Waterford, Ireland. *Entomologist* **29**: 288.

—— (1895) *Hepialus humuli*, &c., in Ireland. *Entomologist's Rec. J. Var.* **6**: 238.

—— (1896) *Acherontia atropos* in Co. Waterford, Ireland. *Entomologist* **29**: 288.

—— (1897) *Leucophasia sinapis*, L., in Co. Waterford, &c. *Entomologist.* **30**: 200.

—— (1897) *Oenistis quadra* in Co. Waterford. *Ir. Nat.* **6**: 252.

—— (1899) *Colias edusa* in Co. Waterford and Co. Cork. *Ir. Nat.* **8**: 228-229.

—— (1899) *Macroglossa stellatarum* etc., in Co. Down. *Ir. Nat.* **8**: 250.

—— (1916) Lepidoptera from Killarney. *Ir. Nat.* **25**: 73-74.

—— (1917) *Notodonta bicoloria* in Co. Kerry. *Ir. Nat.* **26**: 164-165.

—— (1919) *Argynnis aglaia* in East Waterford. *Ir. Nat.* **28**: 12.

—— (1919) *Leucophasia sinapis* in Co. Cork. *Ir. Nat.* **28**: 92.

—— (1934) Entomological notes from Co. Dublin. *Entomologist's Rec. J. Var.* **46**: 8.

—— (1949) Butterflies from S.E. Ireland. *Entomologist's Rec. J. Var.* **61**: 130-131.

—— (1950) Butterflies from S.E. Ireland. *Entomologist's Rec. J. Var.* **62**: 63.

Bond, F. (1867) *Lasiocampa quercus* versus *callunae*. *Entomologist's mon. Mag.* **4**: 35-36.

—— (1868) *Dianthoecia conspersa* as an Irish species. *Entomologist* **4**: 121-122.

Bond, K. (1991) Extension of the known range of *Rhigognostis incarnatella* (Steudel, 1873) (Lepidoptera: Yponomeutidae) - records from Ireland and the Isle of Man. *Entomologist's Gazette* **42**: 223-225.

—— (2005) The status of the members of the genus *Oligia* Hübner, 1821 (Lepidoptera: Noctuidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 130-142.

—— (2006) History of moth recording in Ireland. *Irish Moth and Butterfly Network Newsletter* **No. 1**: 6-7.

—— (2009) *Epermenia aequidentellus* (Hofmann, 1867) (Lepidoptera: Epermeniidae) new to Scotland. *Entomologist's Gazette* **60**: 88.

Bond, K., Nash, R. and Rippey, I. (1989) Some Lepidoptera of note in Cos Fermanagh and Tyrone, June 1988. *Ir. Nat. J.* **23**: 147-150.

Bond, K. G. M. (1975) *Coleas croceus* Geoff. in Co. Wexford and Co. Cork in 1975. *Entomologist's Rec. J. Var.* **87**: 301.

—— (1977) *Biston betularia* Linn ab. *carbonaria* Jordan and other Lepidoptera in Ireland in 1976 and 1977. *Entomologist's Rec. J. Var.* **89**: 328.

—— (1979) New Irish records of Microlepidoptera in August. *Entomologist's Rec. J. Var.* **91**: 27.

—— (1979) *Oligia versicolor* (Borkh) in Co. Dublin. *Entomologist's Rec. J. Var.* **91**: 278.

—— (1981) *Croesia forskaleana* L., *Gypsonoma aceriana* Dup. and *Eucosma obumbratana* L. & Z. in County Cork. *Entomologist's Rec. J. Var.* **93**: 40. (*C. forsskaleana*)

—— (1981) Some additions to the Irish Microlepidoptera, 1978-1980. *Entomologist's Rec. J. Var.* **93**: 58-59.

—— (1981) *Adela cuprella* D. & S. (Lep.: Incurvariidae) in three Irish counties. *Entomologist's Rec. J. Var.* **93**: 237.

—— (1982) (communications: *Vanessa atalanta* in Cork). *Proceedings and Transactions of the British Entomological and Natural History Society* **15**: 115.

—— (1983) *Tebenna bjerkandrella* Thunberg (Lep.: Glyphipterigidiae) in Ireland. *Entomologist's Rec. J. Var.* **95**: 28. (the record actually refers to *T. micalis* (Mann))

—— (1984) First Irish record of *Amphipoea fucosa paludis* (Lepidoptera: Noctuidae). *Ir. Nat. J.* **21**: 278.

—— (1984) Recent records of Eriocraniidae (Lepidoptera) including three species new to the Irish list. *Ir. Nat. J.* **21**: 323-324.

—— (1985) Invertebrates of Irish midlands raised bogs: part III. Lepidoptera. *Bulletin of the Irish Biogeographical Society* **8**: 103-110.

—— (1987) *Eilema caniola* (Hubner) and *Cryphia muralis* (Forster) in County Wicklow. *Entomologist's Rec. J. Var.* **99**: 183-184.

—— (1987) Henry Heal (1920-1986)-microlepidopterist. *Ir. Nat. J.* **22**: 218.

—— (1987) Discovery of male *Ectoedemia argyropeza* (Zeller) (Lepidoptera: Nepticulidae) in south-west Ireland. *Entomologist's Gazette* **38**: 191-195.

—— (1988) *Cacoecimorpha pronubana* (Hübner) (Lepidoptera: Tortricidae) new to Ireland. *Ir. Nat. J.* **22**: 454.

—— (1989) Clonmacnoise Heritage Zone, Co. Offaly, Ireland: assessment of conservation value based on Lepidoptera recorded from 1983-1987. *Bulletin of the Irish Biogeographical Society* **12**: 63-89.

Bond, K. G. M. (1991) *Eulamprotes wilkella* ab. *tarquiniella* Stainton (Lepidoptera: Gelechiidae) rediscovered in eastern Ireland. *Entomologist's Gazette* **42**: 71-74.

—— (1991) A preliminary survey of the Lepidoptera of Pollardstown Fen, Co. Kildare, including a record of *Cosmopterix lienigiella* (Lienig and Zeller, 1839) (Cosmopterigidae), a species new to Ireland. *Bulletin of the Irish Biogeographical Society* **14**: 24-47.

—— (1992) *Crambus uliginosellus* Zeller (Lepidoptera: Pyralidae), first confirmed Irish records. *Ir. Nat. J.* **24**: 167-168.

—— (1992) *Coleophora pappiferella* Hofmann, 1869 (Lepidoptera: Coleophoridae) in Northern Ireland. *Entomologist's Gazette* **43**: 72.

—— (1992) First Irish record of *Archanara geminipuncta* (Haworth, 1809) (Lep.: Noctuidae). *Entomologist's Rec. J. Var.* **104**: 256.

—— (1994) *Chilodes maritimus* (Tauscher) (Lepidoptera: Noctuidae), new to Ireland. *Ir. Nat. J.* **24**: 412.

—— (1995) Irish Microlepidoptera check-list. *Bulletin of the Irish Biogeographical Society* **18**: 176-262.

—— (1996) Previously unpublished records of Microlepidoptera to be added to the Irish list. *Ir. Nat. J.* **25**: 194-207.

—— (1997) First confirmed Irish record of *Epinotia rubiginosana* (Herrich-Schäffer, 1851) (Lepidoptera: Torticidae). *Entomologist's Gazette* **48**: 230.

—— (1998) *Epiphyas postvittana* (Walker) (Lep.: Tortricidae) new to Ireland. *Entomologist's Rec. J. Var.* **110**: 250.

—— (1998) First Irish record of *Apomyelois bistriatella subcognata* (Ragonot, 1887) (*neophanes* (Durrant, 1915)) (Lepidoptera: Pyralidae) with a discussion of its reported feeding habits. *Entomologist's Gazette* **49**: 139.

—— (1999) *Metzneria aestivella* (Zeller, 1839) (Lepidoptera: Gelechiidae): first confirmed Irish record, with a note on the locality of capture. *Entomologist's Gazette* **50**: 115.

—— (1999) The plume moth *Marasmarcha lunaedactyla* (Haworth) (Lepidoptera), new to Ireland, in Cos Waterford and Wexford. *Ir. Nat. J.* **26** (1998): 128.

—— (2000) A further note on the phenology of *Phyllonorycter nigrescentella* (Logan, 1851) (Lepidoptera: Gracillariidae). *Entomologist's Gazette* **51**: 82.

—— (2001) *Phyllocnistis unipunctella* (Stephens, 1834) (Lepidoptera: Gracillariidae, Phyllocnistinae) and *Coleophora salicorniae* Heinemann and Wocke, 1876 (Lepidoptera: Coleophoridae) new to Ireland and first confirmed Irish record of *Stenoptilia zophodactylus* (Duponchel, 1840) (Lepidoptera: Pterophoridae). *Entomologist's Gazette* **52**: 208.

—— (2002) *Homoeosoma sinuella* (Fabricius, 1794) and *Myelois circumvoluta* (Fourcroy, 1785) (Lepidoptera: Pyralidae) new to Ireland from a Co Wicklow site. *Ir. Nat. J.* **27**: 121-122.

—— (2003) *Epinotia sordidana* (Lepidoptera: Tortricidae) new to Ireland. *Entomologist's Gazette* **54**: 142.

—— (2005) *Coleophora sternipennella* (Zetterstedt, 1839) (Lepidoptera: Coleophoridae) new to Ireland. *Entomologist's Gazette* **56**: 65.

Bond, K. G. M. (2007) Recent extension of the range of *Phyllonorycter leucographella* (Zeller, 1850) (Lepidoptera: Gracillariidae) in Ireland. *Ir. Nat. J.* **28**: 521-522.

—— (2009) Microlepidoptera of Northern Ireland check-list. *Northern Ireland Environment Agency Research and Development Series* **No. 09/02**.

—— (2010) *Epinotia pygmaeana* (Hübner, 1799) (Lepidoptera: Tortricidae) in County Cork - the first Irish record. *Entomologist's Gazette* **61**: 104.

—— (2011) A historical Irish record of *Endothenia ustulana* (Haworth, 1811) (Lepidoptera: Tortricidae). *Ir. Nat. J.* **31** (2010): 138-139.

—— (2016) *Stigmella roborella* ([D. & S.]), *S. sakhalinella* Puplesis (Nepticulidae) and *Phalonidia curvistrigana* (Stainton) (Tortricidae) - three Lepidoptera species new to Ireland. *Entomologist's Rec. J. Var.* **128**: 48-49.

—— (2018) Additions and amendments to the Irish Microlepidoptera List since 2012. *Entomologist's Rec. J. Var.* **130**: 113-120.

Bond, K. G. M. and Ashe, P. (2005) *Phyllonorycter leucographella* (Zeller, 1850) (Lepidoptera: Gracillariidae) new to Ireland. *Entomologist's Gazette* **56**: 80.

Bond, K. G. M. and Early, J. K. (1991) *Thera juniperata* Thunberg in eastern Ireland. *Entomologist's Rec. J. Var.* **103**: 206-207. (the authority should be Linnaeus)

Bond, K. G. M. and Gittings, T. (2008) Database of Irish Lepidoptera. 1 - macrohabitats, microsites and traits of Noctuidae and butterflies. *Irish Wildlife Manuals* **No. 35**. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin.

Bond, K. G. M. and Good, J. A. (1986) Spring records of *Hyles livornica livornica* (Lepidoptera: Sphingidae) from south-west Ireland. *Entomologist's Rec. J. Var.* **98**: 10.

—— (1989) Extension in range of the Carnation Tortrix *Cacoecimorpha pronubana* (Hübner) (Lepidoptera: Torticidae). *Ir. Nat. J.* **23**: 153.

Bond, K. G. M., McClean, J. and Millar, S. (2017) *Checklist of Northern Ireland Microlepidoptera January 2017*. Butterfly Conservation Northern Ireland Report **2017-1**. Butterfly Conservation, Northern Ireland.

Bond, K. G. M., Nash, R. and O'Connor, J. P. (2006) *An annotated checklist of the Irish butterflies and moths (Lepidoptera)*. The Irish Biogeographical Society in association with The National Museum of Ireland, Dublin. 177pp.

—— (2008) An annotated checklist of Irish butterflies and moths (Lepidoptera). InvertebrateIreland Online, Ulster Museum, Belfast and National Museum of Ireland, Dublin.

Bond, K. G. M. and O'Connor, J. P. (2012) Additions, deletions and corrections to *An annotated checklist of the Irish butterflies and moths (Lepidoptera)* with a concise checklist of Irish species and *Elachista biatomella* (Stainton, 1848) new to Ireland. *Bulletin of the Irish Biogeographical Society* **36**: 60-179.

Bouchard, P. (1860) (*Notondonta bicolora*). *The Entomologist's Annual* **1860**: 139.

—— (1864) *Notodonta bicolor* in Killarney. *Entomologist* **2**: 71.

—— (1864) *Ophiodes lunaris* in Ireland. *Entomologist* **2**: 86.

Bouskell, F. (1903) Three weeks in south Kerry. June, 1902. General account and botany. *Ir. Nat.* **12**: 57-59. (Col., Lep.)

Bowater, W. (1896) (*Sesia scoliaeformis*). *Entomologist's mon. Mag.* **32**: 92 & *Entomologist* **29**: 142.

Bowden, S. R. (1953) Timing of imaginal development in male and female hybrid Pieridae (Lep.). *Entomologist* **86**: 255-264.

—— (1970) Polymorphism in *Pieris*: f. *sulphurea* in *Pieris napi marginalis* (Lep., Pieridae). *Entomologist* **103**: 241-249.

—— (1970) *Pieris napi* L.: speciation and subspeciation (Lep., Pieridae). *Proceedings and Transactions of the British Entomological and Natural History Society.* **3**: 63-70.

—— (1983) Androconial scales and Scottish *Artogeia napi* (L.) (Lepidoptera: Pieridae). *Entomologist's Gazette* **34**: 237-245, plate 10.

Bowes, A. J. L. (1933) *Acronycta alni* in Co. Limerick. *Entomologist* **66**: 173.

Bowles, N. (1997) Wildlife reports. Butterflies. *British Wildlife* **9**: 52-53. (Antrim: Camberwell Beauty)

—— (1997) Wildlife reports. Butterflies. *British Wildlife* **9**: 116-118. (Cork: The Monarch)

Boyd, A. W. (1912) (*Lycaena icarus*). *Entomologist* **45**: 284.

Boyd, T. (2001) Butterflies in Northern Ireland. *Atropos* **12**: 11-14.

Boyd, T. D. (1947) Silver-washed Fritillary and Clouded Yellow in Co. Down. *Ir. Nat. J.* **9**: 99.

—— (1948) Irish immigrant Lepidoptera. *Ir. Nat. J.* **9**: 180.

Boyd, T. D. and Thompson, R. (1993) *Provisional Atlas of the Butterflies of Northern Ireland*. Butterfly Conservation, Wareham. 35pp.

Boyle, K. and Whelan, J. (1990) Changes in the diet of the badger *Meles meles* L. from autumn to winter. *Ir. Nat. J.* **23**: 199-202.

Bradley, J. D. (1952) Microlepidoptera collected in the Burren, Co. Clare, Ireland in 1951, including two species new to the British List. *Entomologist's Gazette* **3**: 185-192, plate 10.

—— (1953) Microlepidoptera collected in the Burren, Co. Clare, Ireland, in 1952, including a plume moth new to the British List. *Entomologist's Gazette* **4**: 135-140, plate 1.

—— (1953) Microlepidoptera from the Bantry - Glengarriff area, West Cork. *Ir. Nat. J.* **11**: 16-18.

—— (1956) *Coleophora paripennella* Zeller, 1839, and a description of a new species previously misidentified (Lepidoptera: Coleophoridae). *Entomologist's Gazette* **7**: 145-149.

—— (1960) An influx of the Humming-bird Hawk-moth in 1959. *Entomologist's Gazette* **11**: 4-5.

—— (1960) Additional records of Microlepidoptera collected in the Burren, Co. Clare, Ireland, in 1951 and 1952. *Entomologist's Gazette* **11**: 31-36.

—— (1962) On *Acleris literana* (Linnaeus) (Lepidoptera Tortricidae), with descriptions of new aberrations from the L. T. Ford Collection. *Entomologist's Gazette* **13**: 117-128, plates 1, 2.

—— (2000) *Checklist of Lepidoptera recorded from the British Isles.* Second edition (revised). D. J. Bradley and M. J. Bradley, Fordingbridge and Newent.

Bradley, J. D. and Pelham-Clinton, E. C. (1967) The Lepidoptera of the Burren Co. Clare, W. Ireland. *Entomologist's Gazette* **18**: 115-153.

Brenan, S. A. (1893) *Sirex gigas* and *Acherontia atropos* in Co. Antrim. *Ir. Nat.* **2**: 252, 277. (correction in *Ir. Nat.* **2**: 277)

—— (1904) Convolvulus Hawk-Moth in Co. Antrim. *Ir. Nat.* **13**: 250.

Bretherton, R. F. (1951) Our lost butterflies and moths. *Entomologist's Gazette* **2**: 211-240, Table 1.

—— (1952) The European distribution of *Luceria virens* L. *Entomologist's Gazette* **3**: 3.

—— (1955) *Palpita* (*Margarodes*) *unionalis* Hubner (Lep., Pyralidae) in the British Isles. *Entomologist* **88**: 76-81.

—— (1956) The immigration of *Palpita unionalis* Hubner (Lep., Pyralidae) in 1955, and additional earlier records. *Entomologist* **89**: 181-184.

—— (1966) A distribution list of the butterflies (Rhopalocera) of Western and Southern Europe. *Transactions of the Society of British Entomology* **17**: 1-94.

—— (1968) President's address (The butterflies of Britain in relation to those of the adjacent parts of the continent). *Proceedings and Transactions of the British Entomological and Natural History Society* **1**: 4-15.

—— (1972) Eastern immigrants and resident natives: a survey of some British Lepidoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **5**: 95-119.

—— (1976) (communications: *Mythimna loreyi* Dup. (Noctuidae) taken in Cork by A. Myers). *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 116.

—— (1979) (communications: *Mythimna unipuncta* (Haw.)). *Proceedings and Transactions of the British Entomological and Natural History Society* **12**: 64.

—— (1982) Lepidoptera immigration to the British Isles, 1969 to 1977. *Proceedings and Transactions of the British Entomological and Natural History Society* **15**: 98-110.

—— (1983) Lepidoptera immigration to the British Isles, 1969 to 1977. *Proceedings and Transactions of the British Entomological and Natural History Society* **16**: 1-23.

—— (1983) The incidence of migrant Lepidoptera in the British Isles. Pp 9-34. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **10**. Harley Books, Colchester.

—— (1984) Monarchs on the move - *Danaus plexippus* (L.) and *D. chrysippus* (L.). *Proceedings and Transactions of the British Entomological and Natural History Society* **17**: 65-66.

Bretherton, R. F. and Chalmers-Hunt, J. M. (1979) The immigration of Lepidoptera to the British Isles in 1978. *Entomologist's Rec. J. Var.* **91**: 81-91, plates II-III.

—— (1980) The immigration of Lepidoptera to the British Isles in 1979. *Entomologist's Rec. J. Var.* **92**: 89-97.

—— (1981) The immigration of Lepidoptera to the British Isles in 1979: a supplementary note. *Entomologist's Rec. J. Var.* **93**: 28-29.

—— (1981) The immigration of Lepidoptera to the British Isles in 1980, with an account of the invasion of the Painted Lady: *Cynthia cardui* L. *Entomologist's Rec. J. Var.* **93**: 47-54, 103-111.

Bretherton, R. F. and Chalmers-Hunt, J. M. (1982) The immigration of Lepidoptera to the British Isles in 1981, including that of the Monarch Butterfly: *Danaus plexippus* L. *Entomologist's Rec. J. Var.* **94**: 81-87, 141-146.

—— (1982) The immigration of Lepidoptera to the British Isles in 1980: a supplementary note. *Entomologist's Rec. J. Var.* **94**: 47-52.

—— (1983) The immigration of Lepidoptera to the British Isles in 1982. *Entomologist's Rec. J. Var.* **95**: 89-94, 141-152.

—— (1984) The immigration of Lepidoptera to the British Isles in 1983. *Entomologist's Rec. J. Var.* **96**: 85-91, 147-159.

—— (1985) The immigration of Lepidoptera to the British Isles in 1984. *Entomologist's Rec. J. Var.* **97**: 140-145, 179-185, 224-228.

—— (1985) The immigration of Lepidoptera to the British Isles in 1981, 1982, 1983: a supplementary note. *Entomologist's Rec. J. Var.* **97**: 76-84.

—— (1986) The immigration of Lepidoptera to the British Isles in 1985. *Entomologist's Rec. J. Var.* **98**: 159-163, 204-207, 223-230.

—— (1987) The immigration of Lepidoptera to the British Isles in 1982, 1983, 1984 and 1985. *Entomologist's Rec. J. Var.* **99**: 147-152.

—— (1987) The immigration of Lepidoptera to the British Isles in 1986. *Entomologist's Rec. J. Var.* **99**: 189-194.

—— (1988) The immigration of Lepidoptera to the British Isles in 1987. Annexe II. Records of scarcer immigrant species in 1987. *Entomologist's Rec. J. Var.* **100**: 226-232.

—— (1989) Lepidoptera immigrant to the British Isles in 1985, 1986 and 1987 - a supplementary note. *Entomologist's Rec. J. Var.* **101**: 131-135.

—— (1989) The immigration of Lepidoptera to the British Isles in 1988. *Entomologist's Rec. J. Var.* **101**: 153-159, 225-230.

—— (1990) The immigration of Lepidoptera to the British Isles in 1989. *Entomologist's Rec. J. Var.* **102**: 153-159, 215-224.

Bretherton, R. F., Davies, M., Dempster, J. P., Emmet, A. M., Heath, J., Melling, T., Morton, A. C., Oates, M., Porter, K. J., Read, M. J., Thomas, J. A. and Willmott, K. J. (1989) Lycaenidae. Pp 118-179. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(1). *Hesperiidae-Nymphalidae. The butterflies.* Harley Books, Colchester.

Bretherton, R. F., Goater, B. and Lorimer, R. I. (1979) Noctuidae. Pp 120-278. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **9**. *Sphingidae-Noctuidae Noctuinae and Hadeninae.* The Curwen Press, London.

—— (1983) Noctuidae (continued). Pp 36-413, plates 1-13. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland*. **10**. Harley Books, Colchester.

Bristow, E. (1870) *Deilephila livornica* near Kilkenny. *Entomologist's mon. Mag.* **7**: 61.

Bristow, J. (1858) Captures at Tinahely. *Entomologist's Weekly Intelligence* **4**: 132.

—— (1859) Notes on *Anarta myrtilla*. *Entomologist's Weekly Intelligence* **6**: 149-150.

—— (1859) *Sphinx convolvuli*. *Entomologist's Weekly Intelligence* **6**: 186-187.

—— (1876) Practical hints to collectors of Lepidoptera. *Proceedings of the Belfast Naturalists' Field Club* **1**: 185-199.

Bristow, J. (1889) *Nyssia zonaria* in Co. Antrim. *Entomologist's mon. Mag.* **25**: 283.
—— (1895) *Vanessa antiopa* in Ireland. *Entomologist* **8**: 220.
Brooke, W. M. A. (1936) Report of the Dublin Naturalists' Field Club Jubilee Meeting, 1935. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1935-36**: 41-43.
Brooks, J. (1939) Convolvulus Hawk-Moth in Co. Dublin. *Ir. Nat. J.* **7**: 214.
Brown, D. (1987) *Eilema caniola* Hubn. (Hoary Footman) in SW Ireland. *Entomologist's Rec. J. Var.* **99**: 45.
Brown, D. C. G. (2002) Identification workshop: separating Purple Thorn *Selenia tetralunaria* (Hufn.), Lunar Thorn *S. lunularia* (Hb.) and Early Thorn *S. dentaria* (Fabr.). *Atropos* **16**: 24-25. (variants of Lunar Thorn in western Ireland)
Brown, E. W. (1893) Enniskillen. *Entomologist's Rec. J. Var.* **4**: 183.
—— (1894) Variation in Irish Lepidoptera. *Entomologist's Rec. J. Var.* **5**: 47-48.
—— (1895) Enniskillen. *Entomologist's Rec. J. Var.* **6**: 43-44.
—— (1896) Hybernating *Plusia bractea* larvae. *Entomologist's Rec. J. Var.* **8**: 65.
—— (1897) On the occurrence of *Tephrosia crepuscularia* (*biundularia*) in Ireland. *Entomologist's Rec. J. Var.* **9**: 322.
Brown, H. Rowland (1918) Correction corrected - *Coenonympha tiphon* in Durham. *Entomologist* **51**: 184.
Brown, S. C. S. (1940) *Mnesipatris filicivora*, Meyr., in England. *Entomologist's Rec. J. Var.* **52**: 105.
—— (1945) *Eupista* (*Coleophora*) *vitisella* Gregs. and *vaccinella* H.S. (Lep.) in Ivernesshire. *Journal of the Society for British Entomology* **2**: 249.
—— (1947) *Caloptilia* Hubn., a Genus of Tineina. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 157-167.
Bruce, B. (1903) *Hybernia aurantiaria* in County Wicklow. *Ir. Nat.* **12**: 138.
Brunker, J. P. (1933) Early appearance of butterflies. *Ir. Nat. J.* **4**: 200.
—— (1948) Phenological report for 1947. *Ir. Nat. J.* **9**: 107-114.
Brunker, J. P., and Stelfox, A. W. (1929) (Phenological Report for 1928). *Ir. Nat. J.* **2**: 135-146.
—— (1930) Phenological Report. *Ir. Nat. J.* **2**: 33-38.
Brunton, T. (1865) *Acherontia atropos* in Ireland. *Entomologist* **2**: 251.
—— (1874) List of insects taken at Glenarm, 1873. *Entomologist* **7**: 43.
—— (1875) *Sphinx convolvuli* in the North of Ireland. *Entomologist* **8**: 222.
—— (1878) *Acherontia atropos* in North Ireland. *Entomologist* **11**: 140-141.
Bryan, M. (2002) Notes from the bug room - 2. *Entomologist's Rec. J. Var.* **14**: 72-76. (*Pieris napi*)
Bryant, T. (2007) *Bryotropha affinis* (Haworth) (Lepidoptera: Gelechiidae), first confirmed Irish record in Co Waterford (H6). *Ir. Nat. J.* **28** (2006): 341.
—— (2007) Pine Leaf-mining Moth *Clavigesta purdeyi* (Durrant) (Lepidoptera: Tortricidae), new to Ireland in Co Waterford (H6). *Ir. Nat. J.* **28** (2006): 342.
—— (2009) *Pediasia aridella* (Thunberg, 1788) (Lepidoptera: Pyralidae) and *Epermenia aequidentellus* (Hofmann, 1967) (Lepidoptera: Epermeniidae) new to Ireland in Co. Waterford (H6). *Ir. Nat. J.* **30**: 64.

Bryant, T. (2009) Potato Tuber Moth (*Phthorimaea operculella* (Zeller, 1873)) (Lepidoptera: Gelechiidae) and Old World Webworm (*Hellula undalis* (Fabricius, 1781)) (Lepidoptera: Pyralidae) migrants new to Ireland in Co. Waterford (H6). *Ir. Nat. J.* **30**: 64-65.

—— (2009) *Syncopacma polychromella* (Rebel) (Lep: Gelechiidae) new to Ireland. *Entomologist's Rec. J. Var.* **121**: 263.

—— (2010) *Nephopterix angustella* (Hb.) (Lepidoptera: Pyralidae) new to Ireland. *Entomologist's Rec. J. Var.* **122**: 266.

—— (2010) *Cydia amplana* (Hübner, 1799) (Lepidoptera: Tortricidae) and *Uresiphita gilvata* (Fabricius, 1794) (Lepidoptera: Crambidae), migrants new to Ireland in Co. Waterford (H6). *Ir. Nat. J.* **30** (2009): 141-142.

—— (2013) Tunbridge Wells Gem (*Chrysodeixis acuta* (Walker, 1858)) (Lepidoptera: Noctuidae), a migrant new to Ireland. *Ir. Nat. J.* **33**: 69.

—— (2014) Willow Ermine *Yponomeuta rorrella* (Hübner) (Lep.: Yponomeutidae), a migrant new to Ireland. *Entomologist's Rec. J. Var.* **126**: 189.

—— (2015) Bloxworth Snout (*Hypena obsitalis* (Hübner)) (Lepidoptera: Noctuidae) possibly resident in Ireland. *Ir. Nat. J.* **34**: 133-134.

—— (2016) Oriental Fruit Moth (*Grapholita molesta* (Busck)) (Lepidoptera: Tortricidae) a second Irish record. *Ir. Nat. J.* **35**: 65-66.

—— (2016) *Cornifrons ulceratalis* Lederer, 1858 (Lep.: Crambidae), a migrant new to Ireland. *Entomologist's Rec. J. Var.* **128**: 210.

—— (2017) *Etiella zinckenella* (Treitschke, 1832) (Lep.: Pyralidae) a migrant new to Ireland. *Entomologist's Rec. J. Var.* **129**: 225-226.

—— (2017) *Cydalima perspectalis* (Walker, 1859) (Lep.: Crambidae), new to Ireland. *Entomologist's Rec. J. Var.* **129**: 230-231.

—— (2018) Heart & Dart *Agrotis exclamationis* (Linnaeus, 1758) (Lep.: Noctuidae), a green-scaled aberrant. *Entomologist's Rec. J. Var.* **130**: 199.

—— (2018) Bee Moth *Aphomia sociella* (Linnaeus, 1758) (Lep.: Pyralidae) lekking. *Entomologist's Rec. J. Var.* **130**: 268.

—— (2018) *Apodia bifractella* (Duponchel, [1843]) (Lep.: Gelechiidae) new to Ireland. *Entomologist's Rec. J. Var.* **130**: 268.

—— (2020) Boathouse Gem *Thysanoplusia daubei* (Boisduval, 1840) (Lep.: Noctuidae), a migrant new to Ireland. *Entomologist's Rec. J. Var.* **132**: 218-219.

Bryant, T. and Bond, K. G. M. (2008) *Bactra venosana* (Zeller, 1847) (Lep: Tortricidae) new to the British Isles from Ireland. *Entomologist's Rec. J. Var.* **120**: 97-99.

—— (2010) *Crombrugghia laetus* (Zell.) (Lep.: Pterophoridae) new to Ireland. *Entomologist's Rec. J. Var.* **122**: 34.

—— (2014) Tomato Leaf Miner *Tuta absoluta* (Meyrick) (Lep.: Gelechiidae), a migrant new to Ireland. *Entomologist's Rec. J. Var.* **126**: 186.

—— (2017) *Ephestia woodiella* Richards & Thomson, 1932 (Lep.: Pyralidae) new to Ireland. *Entomologist's Rec. J. Var.* **129**: 230.

—— (2018) *Eucosma conterminana* (Guenée, 1845) (Lep.: Tortricidae) new to Ireland. *Entomologist's Rec. J. Var.* **130**: 15.

Bryant, T. and Bond, K. G. M. (2019) Marigold Shark *Cucullia calendulae* Treitschke, 1835 (Lep.: Noctuidae), a migrant new to Ireland. *Entomologist's Rec. J. Var.* **131**: 64-65.

Bryant, T. and Walsh, P. (2007) Reports from coastal stations - 2006. Tramore Bay, Co Waterford. *Atropos* **30**: 84-85.

—— (2008) Reports from coastal stations. Tramore, Co Waterford. *Atropos* **33**: 75.

—— (2009) Reports from coastal stations - 2008. Tramore Bay, Co. Waterford. *Atropos* **36**: 60-61.

—— (2012) Tramore Bay, Co. Waterford. Reports from coastal stations - 2011. *Atropos* **45**: 77-78.

—— (2013) Tramore Bay, Co. Waterford. Reports from coastal stations - 2012. *Atropos* **48**: 72.

—— (2014) Tramore Bay, Co. Waterford. Reports from coastal stations - 2013. *Atropos* **51**: 84.

Bryant, T. and Walsh, P. M. (2010) Reports from coastal stations - 2009. Tramore Bay, Co. Waterford. *Atropos* **39**: 66-67. (includes *Syncopacma polychromella*)

—— (2011) Reports from coastal stations - 2010. Tramore Bay, Co. Waterford. *Atropos* **42**: 70-71.

Buckell, F. J. (1895) *Coenonympha typhon* and its varieties. *Entomologist's Rec. J. Var.* **7**: 100-107.

Buckler, W. (1879) Natural History of *Dianthoecia barrettii*. *Entomologist's mon. Mag.* **16**: 52-55.

Buckstone, A. A. W. (1924) (*Aphantopus hyperanthus*). *Proceedings of the South London Entomological and Natural History Society* **1924-25**: 121.

Bullock, D. J. (1974) Migrating butterflies at Ballyheige, Co. Kerry. *Ir. Nat. J.* **18**: 94.

Burden, J. W. (1965) Small Tortoiseshell, - early breeding date. *Ir. Nat. J.* **15**: 22.

Burkmar, R. and Jones, G. (2008) The Sandhill Rustic: a conservation flagship. *Atropos* **35**: 38-44. (ssp *knilli* in Co. Kerry)

Burns, G. (1935) Clouded Yellow Butterfly in Belfast. *Ir. Nat. J.* **5**: 286.

Burrows, C. R. N. (1907) Notes on *Hemithea aestivaria*, Hb. *Entomologist's Rec. J. Var.* **19**: 234-236.

—— (1910) On the variation of *Hydroecia crinanensis*, Burrows and Pierce. *Entomologist's Rec. J. Var.* **22**: 80-81.

—— (1910) *Hydroecia crinanensis* at Enniskillen. *Entomologist's Rec. J. Var.* **22**: 117.

—— (1911) On the *nictitans* group of the Genus *Hydroecia*, Gn. *Transactions of the Entomological Society of London* **59**: 738-749.

—— (1918) Irish psychid moths. *Ir. Nat.* **27**: 11-12.

—— (1919) The larvae of *Hydroecia crinanensis* and that of *Apamea leucostigma* (*fibrosa*). *Entomologist's Rec. J. Var.* **31**: 177-178.

—— (1919) Food-plant, and rearing, of *Hydroecia crinanensis*. *Entomologist's Rec. J. Var.* **31**: 12-14.

—— (1919) The foodplant of *Hydroecia crinanensis*. *Entomologist's Rec. J. Var.* **31**: 33.

—— (1923) Notes on the Psychides. *Entomologist's Rec. J. Var.* **35**: 79-84.

—— (1940) *Pseudoterpna pruinata* Hufn. *Entomologist's Rec. J. Var.* **52**: 121-125.

Burton, J. F. (1963) Butterflies in Co. Kerry. *Entomologist's Rec. J. Var.* **75**: 207.

Burton, J. F. (1992) Why was 1887 an exceptional year for vagrant butterflies in Britain? *Entomologist's Rec. J. Var.* **104**: 25-31. (*Euchaleia variabilis*)

—— (1998) The apparent responses of European Lepidoptera to the climate changes of the past hundred years. *Atropos* **5**: 24-30.

Butterfly Conservation Northern Ireland (2009) *Butterfly report for 2008*. Butterfly Conservation, Northern Ireland Branch.

Byrne, R. A. and Reynolds, J. D. (1982) Preliminary notes on a doline in Lough Gealain, the Burren, County Clare. *Ir. Nat. J.* **20**: 375-377.

Bytinski-Salz, H. (1939) New and little known forms of *Hepialus* mostly from Great Britain. *Entomologist's Rec. J. Var.* **51**: 81-85, plate LI. (ab. *ornatus* from Sligo)

Campbell, D. C. (1893) The Macro-Lepidoptera of the Londonderry District. *Ir. Nat.* **2**: 19-22, 43-46, 72-74, 147.

—— (1894) *Asphalia flavicornis* at Lough Swilly, Co. Donegal. *Ir. Nat.* **3**: 261.

—— (1896) Clifton Nonpareil (*Catocala fraxini*) at Londonderry. *Ir. Nat.* **5**: 318.

—— (1898) *Nyssia zonaria* in Co. Antrim. *Ir. Nat.* **7**: 254.

—— (1900) Lepidoptera near Londonderry. *Ir. Nat.* **9**: 246.

—— (1903) Convolvulus Hawk-Moth at Londonderry. *Ir. Nat.* **12**: 318.

—— (1904) Large Emerald Moth and Convolvulus Hawk-Moth at Londonderry. *Ir. Nat.* **13**: 251.

—— (1906) Entomological notes from Londonderry. *Ir. Nat.* **15**: 44-45.

—— (1906) Striped Hawk Moth at Londonderry. *Ir. Nat.* **15**: 191.

Campbell, J. L. (1961) The new edition of South's "Moths of the British Isles". *Entomologist's Rec. J. Var.* **73**: 220.

Campbell, W. H. (1878) *Heliothis scutosa* in Co. Donegal, Ireland. *Entomologist's mon. Mag.* **15**: 137 & *Entomologist* **11**: 231.

—— (1878) *Miana arcuosa* and *Plusia interrogationis* near Londonderry. *Entomologist* **11**: 231.

—— (1883) Description of the larva of *Celaena haworthii* and of *Nonagria fulva*. *Entomologist* **16**: 261-262.

—— (1884) Notes on the past Season in Cos. Derry and Donegal. *Entomologist* **17**: 59-62.

—— (1894) *Lithosia complana* in Co. Antrim. *Ir. Nat.* **3**: 243.

—— (1894) *Lithosia complana* in the North of Ireland. *Entomologist's mon. Mag.* **30**: 211.

Canning, S. (1866) Lepidopterous captures in various localities. *Entomologist's mon. Mag.* **2**: 261.

Cardew, P. A. (1927) Notes from Northern Ireland. *Entomologist* **60**: 89-91.

Carpenter, G. D. Hale, Hobby, D. M. and Hobby, B. M. (1937) On some European yellow forms of *Pieris napi* (L.) (Lep. Rhopalocera): a review of the literature. *Entomologist* **70**: 181-185, 204-210, 232-238.

Carpenter, G. H. (1889) *Plusia illustris* in Ireland. *Entomologist* **22**: 46.

—— (1891) A new species of *Tortrix* from Tuam. *Scientific Proceedings of the Royal Dublin Society* **7**: 91-94.

—— (1892) *Nyssia zonaria* on Achill Island. *Ir. Nat.* **1**: 42.

—— (1892) (*Nyssia zonaria* and *Cossus ligniperda*). *Ir. Nat.* **1**: 40.

—— (1893) A deceptive caterpillar. *Ir. Nat.* **2**: 279-282, 1 plate.

Carpenter, G. H. (1895) Black variety of the larva of *Saturnia pavonia* near Dublin. *Entomologist's mon. Mag.* **31**: 119-120.
—— (1895) *Erebia epiphron*, var *cassiope*, near Sligo. *Ir. Nat.* **4**: 77-78.
—— (1895) Lepidoptera from Sligo. *Ir. Nat.* **4**: 191.
—— (1896) Abundance of *Acherontia atropos*. *Ir. Nat.* **5**: 317.
—— (1901) *Oenistis quadra* on Carlingford Mountain. *Ir. Nat.* **10**: 164.
—— (1902) Some noteworthy Irish Lepidoptera. *Ir. Nat.* **11**: 19.
—— (1902) *Sphinx convolvuli* breeding in Ireland. *Ir. Nat.* **11**: 46.
—— (1902) *Vanessa io* in Co. Donegal. *Ir. Nat.* **11**: 123.
—— (1902) Irish Entomology. *Ir. Nat.* **11**: 224-226.
—— (1904) *Oenistis quadra* in Queen's County. *Ir. Nat.* **13**: 28.
—— (1905) Convolvulus Hawk-Moth at Sligo. *Ir. Nat.* **14**: 262.
—— (1914) The Death's-head Moth in Northern Ireland. *Ir. Nat.* **23**: 238.
—— (1917) Useful studies for field naturalists. *Ir. Nat.* **26**: 66-70.
Carrington, T. J. (1869) Notes on Lepidoptera at Howth and Wicklow. *Entomologist's mon. Mag.* **6**: 67.
—— (1869) Corrections in notes on Irish Lepidoptera. *Entomologist's mon. Mag.* **6**: 96.
—— (1883) Report on the Entomology of certain districts in Ulster. *Entomologist* **16**: 124-127.
—— (1885) Collecting the Genus *Eupithecia*. *Entomologist* **18**: 108-112, 139-146.
—— (1887) Collecting clear-winged Lepidoptera. *Entomologist* **20**: 96-105.
—— (1888) *Deilephila galii* in 1888. *Entomologist* **21**: 249-251.
Carroll, E., Sparks, T., Donnelly, A. and Cooney, T. (2009) Irish phenological observations from the early 20th century reveal a strong response to temperature. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 115-126.
Carter, D. J. (1967) The Lepidoptera, Trichoptera and Odonata of Cape Clear Island. *Cape Clear Bird Observatory Report* **8**: 45-46.
—— (1979) The National Collection of British Lepidoptera (R.C.K.). *Proceedings and Transactions of the British Entomological and Natural History Society* **12**: 19-23.
Castle Russell, S. G. (1955) Phenomenal numbers of Rhopalocera larvae and imagines. *Entomologist's Rec. J. Var.* **67**: 111-113.
Caswell, W. (1976) Strange experience with *Lasiocampa quercus* L. *Bulletin of the Amateur Entomologists' Society* **35**: 70.
—— (1994) My favourite moth. *Bulletin of the Amateur Entomologists' Society* **53**: 189. (*Lasiocampa quercus*)
Chainey, J. E. (1976) A year in Co. Cork. *Entomologist's Rec. J. Var.* **88**: 226-231, 249-255.
Chalmers-Hunt, J. M. (1970) The butterflies and moths of the Isle of Man. *Transactions of the Society of British Entomology* **19**: 1-171.
—— (1973) (Exhibits: *Eriogaster lanestris* L. (Lymantriidae) from the Burren). *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 92.
—— (1973) (*Leptidea sinapis* L. in Burren). *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 92.
—— (1974) *Philereme transversata* Hufn. (Lep: Geometridae) in Ireland. *Entomologist's Rec. J. Var.* **86**: 221.

Chalmers-Hunt, J. M. (1975) The 1974 Presidential Address. Notes on the Coleophoridae. *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 74-87, plates V-VIII.

—— (1977) The 1976 invasion of the Camberwell Beauty (*Nymphalis antiopa* L.). *Entomologist's Rec. J. Var.* **89**: 89-105.

—— (1977) *Cosmopterix drurella* (Fabricius) (Lep: Momphidae) in Ireland. *Entomologist's Rec. J. Var.* **89**: 276.

—— (1977) Lepidoptera in Co. Mayo. *Entomologist's Rec. J. Var.* **89**: 347.

—— (1978) (Communications: grey form of *Eupithecia venosata* (Fab.)). *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 121.

—— (1982) On some interesting Irish Lepidoptera in the National Museum of Ireland. *Ir. Nat. J.* **20**: 530-537.

—— (1984) 1983 Annual Exhibition. Microlepidoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **17**: 8-14. (p. 12 Pickles, A. J. & C. T.: *Stenoptilia saxifragae* Fletcher series bred from the Burren)

—— (1987) 1986 Annual Exhibition. British microlepidoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 49-55. (Pelham-Clinton, E. C.: *Argyresthia dilectella* Zell., new to Ireland)

—— (1987) The 1986 Presidential Address Part II. More notes on the Coleophoridae. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 151-159.

—— (1989) *Local lists of Lepidoptera or a bibliographical catalogue of local lists and regional accounts of the butterflies and moths of the British Isles*. Hedera Press, Oxfordshire. 247pp. (Irish counties included)

—— (1990) 1989 Annual exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **3**: 69-74. (Heckford, R. J.: Irish species; J. R. Langmaid: Irish species)

—— (1992) 1991 Annual exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **5**: 59-63. (Harper, M. W. and Simpson, A. N. B.: *Agonopterix astrantiae* Hein - new to Ireland)

—— (1993) 1992 Annual exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **6**: 58-64. (Elliott, B.: *Microstega pandalis* Hübn.; Skinner, B.: *Pempeliella ornatella* D. and S.)

—— (1995) 1994 Annual Exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **8**: 188-194. (Emmet, A. M.: *Kessleria saxifragae* Stainton; Sterling, M. J. and P. H.: *Bryotropha mundella* Douglas and *Acleris permutana* Dup.)

Chalmers-Hunt, J. M. and Bretherton, R. F. (1993) Lepidoptera immigration to the British Isles in 1987, 1988 and 1989: a supplementary note. *Entomologist's Rec. J. Var.* **105**: 27-30.

Chalmers-Hunt, J. M. and Skinner, B. (1992) The immigration of Lepidoptera to the British Isles in 1990. *Entomologist's Rec. J. Var.* **104**: 123-127, 209-218, 231-235.

Chapman, T. A. (1888) Profusion of larvae of *Lasiocampa rubi*. *Entomologist's mon. Mag.* **25**: 135-136.

Chapman, T. A. (1888) *Phibalapteryx lapidata* and *Oporabia filigrammaria* in Ireland. *Entomologist's mon. Mag.* **25**: 213.

—— (1900) Notes on the Fumeids, with descriptions of new species and varieties. *Entomologist's Rec. J. Var.* **12**: 122-126.

Chatelain, R. G. (1983) Butterflies at m.v. light and an *Agrius convolvuli*. *Entomologist's Rec. J. Var.* **95**: 248.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Clancy, S. (2007) The immigration of Lepidoptera to the British Isles in 2004. *Entomologist's Rec. J. Var.* **119**: 145-184. (including *Cydia amplana* (new to Ireland))

—— (2012) Occurrences of the rarer immigrant moths in 2011. *Atropos* **45**: 36-41. (*Chrysodeixis acuta*)

Clancy, S. and Skinner, B. (2006) The immigration of Lepidoptera to the British Isles in 2002. *Entomologist's Rec. J. Var.* **118**: 145-177. (including *Lithophane leautieri hesperica* (new to Ireland))

—— (2007) The immigration of Lepidoptera to the British Isles in 2003. *Entomologist's Rec. J. Var.* **119**: 1-41. (including *Evergestis extimalis* (new to Ireland))

Clancy, S., Top-Jensen, M. and Fibiger, M. (2012) *Moths of Great Britain and Ireland.* Bugbook Publishing, Oestermarie, Denmark.

Clancy, S. P. (2007) Two Lepidoptera species new to Ireland in 2006. *Entomologist's Gazette* **58**: 202. (*Sorhagenia rhamniella*, *Monochroa palustrella*)

—— (2007) 2006 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **20**: 158-164. (Clarke, J. H.: seven species mentioned)

—— (2008) The immigration of Lepidoptera to the British Isles in 2005. *Entomologist's Rec. J. Var.* **120**: 49-84.

—— (2008) The immigration of Lepidoptera to the British Isles in 2006. *Entomologist's Rec. J. Var.* **120**: 209-276.

—— (2008) 2007 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **21**: 158-162. (Clancy, S. P.: species at Ballycotton; Clarke. J. H.: species during June; McCormick, R. F.: species from the Burren; Waring, P.: Burren; *Rheumaptera hastata* Co. Fermanagh)

—— (2009) The immigration of Lepidoptera to the British Isles in 2007. *Entomologist's Rec. J. Var.* **121**: 203-234.

—— (2009) Occurrences of the scarcer moth species in 2008. *Atropos* **36**: 22-26. (*Spodoptera cilium*)

—— (2009) 2008 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **22**: 161-164. (Clarke, J. H.: *Eupithecia abietaria*, *Eugnorisma depuncta*, *Heliophobus reticulata hibernica*; Cook, R. R.: *Acronicta euphorbiae myricae*; Gill, N.: *Eupithecia intricata hibernica*, *E. venosata plumbea*, *Setina irrorella*, *Hadena caesia*; Waring, P.: *Leucodonta bicoloria*)

—— (2010) 2009 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **23**: 178-186. (Clarke, J. H.: *Eupithecia venosata plumbea*, *Hadena caesia*; Page, A.: *Ennomos quercinaria*; Waring, P.: *Leucodonta bicolaria*)

Clancy, S. P. (2011) 2010 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **23**: 178-186. (Clarke, J. H.: ab. *pollutaria* form of *Lomaspilis marginata*, *Diaphora mendica* f. *rusticata* and *Hydriomena ruberata*)

—— (2011) The immigration of Lepidoptera to the British Isles in 2008. *Entomologist's Rec. J. Var.* **123**: 13-44.

—— (2012) The immigration of Lepidoptera to the British Isles in 2009. *Entomologist's Rec. J. Var.* **124**: 105-139.

—— (2013) Occurrences of the rarer immigrant and adventive moths in 2012. *Atropos* **48**: 23-28. (*Megalographa biloba*)

—— (2013) The immigration of Lepidoptera to the British Isles in 2010. *Entomologist's Rec. J. Var.* **125**: 81-107.

—— (2015) The immigration of Lepidoptera to the British Isles in 2011. *Entomologist's Rec. J. Var.* **127**: 45-79.

—— (2016) The immigration of Lepidoptera to the British Isles in 2012. *Entomologist's Rec. J. Var.* **128**: 173-209.

—— (2017) The immigration of Lepidoptera to the British Isles in 2013. *Entomologist's Rec. J. Var.* **129**: 57-99.

—— (2018) The immigration of Lepidoptera to the British Isles in 2014. *Entomologist's Rec. J. Var.* **130**: 57-104.

—— (2019) The immigration of Lepidoptera to the British Isles in 2015. *Entomologist's Rec. J. Var.* **131**: 157-208.

—— (2020) The immigration of Lepidoptera to the British Isles in 2016. *Entomologist's Rec. J. Var.* **132**: 157-191.

Clancy, S. P. and Chapman, P. B. (2008) Bordered gothic *Heliophobus reticulata hibernica* in the Republic of Ireland. *Atropos* **34**: 27-30. (Bordered Gothic)

Clarke, K. and Cooper, B. A. (1936) Migrant Lepidoptera. *Journal of the Entomological Exchange and Correspondence Club* **No 11**: 4-7. (**1**: 72-75 reprinted 1985)

Classey, E. W. (1951) Burren - 1950. *Entomologist's Gazette* **2**: 87-88.

Classey, E. W. and Goater, B. (1951) Systematic list of the Lepidoptera taken by the expedition to Ireland 5th August to 19th August, 1950. *Entomologist's Gazette* **2**: 95-99.

Clifton, J. (2007) The separation of Knot Grass *Acronicta rumicis* (Linn.) and Scarce Dagger *A. auricoma* (D. & S.). *Atropos* **31**: 22-23. (*A. auricoma* from Co. Cork)

—— (2012) British microlepidoptera. *British Journal of Entomology and Natural History* **25**: 160. (Antrim: *Bryotropha terrella*)

—— (2017) *Argyresthia glabratella* (Zeller, 1847) (Lep.: Argyresthiidae) new to Ireland. *Entomologist's Rec. J. Var.* **129**: 125.

Clifton, J. and Bond, K. G. M. (2014) *Coleophora binderella* (Kollar) new to Northern Ireland (Lep.: Coleophoridae). *Entomologist's Rec. J. Var.* **126**: 67.

—— (2011) *Bird-dropping tortrix moths of the British Isles*. Clifton and Wheeler, Dorchester.

Clutten, W. G. (1933) *Emmelesia taeniata*, etc., at Grange-over-Sands. *Entomologist* **66**: 42.

Cockayne, E. A. (1906) Lepidoptera at Rannoch in 1905. *Entomologist* **39**: 53-55.

Cockayne, E. A. (1912) *Hydroecia crinanensis*, Burrows, in the Tutt Collection. *Entomologist's Rec. J. Var.* **24**: 73-74.

—— (1914) (*Zygaena* spp.). *Proceedings of the South London Entomological and Natural History Society* **1914-15**: 110.

—— (1914) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1914-15**: 139-140.

—— (1915) *Dysstroma concinnata*, Stph. *Entomologist's Rec. J. Var.* **27**: 178-181, plates VII-IX.

—— (1915) Scotch *Dysstroma concinnata*. *Proceedings of the Entomological Society of London* **1915**: 117.

—— (1916) (*Dysstroma concinnata*). *Proceedings of the South London Entomological and Natural History Society* **1915-16**: 126.

—— (1919) Inheritance of colour in *Diaphora mendica*, Cl., and var. *rustica*. Hb. *Entomologist's Rec. J. Var.* **31**: 101-104.

—— (1922) (*Diaphora mendica*). *Proceedings of the South London Entomological and Natural History Society* **1922-23**: 120.

—— (1922) Somatic mosaics in Lepidoptera. *Entomologist's Rec. J. Var.* **34**: 105-113.

—— (1932) The larva of *Dysstroma concinnata*, Stephens. *Proceedings of the South London Entomological and Natural History Society* **1932-33**: 16-20.

—— (1934) (*Zygaena purpuralis*). *Proceedings of the South London Entomological and Natural History Society* **1934-35**: 29.

—— (1940) (*Gonepteryx cleopatra*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1940-41**: 14.

—— (1944) New subspecies and aberrations of British Macro-Lepidoptera. *Entomologist's Rec. J. Var.* **56**: 53-56.

—— (1948) *Selidosema plumaria*, Schiff., r. *tyronensis*. *Entomologist's Rec. J. Var.* **60**. 79.

—— (1948) Aberrations of British Macrolepidoptera. *Entomologist's mon. Mag.* **84**: 265-267, plate E.

—— (1950) *Apamea furva*, Schiff., ssp. *britannica*, ssp. nov. *Entomologist's Rec. J. Var.* **62**: 67.

—— (1950) Aberrations of British Lepidoptera (Geometridae). *Entomologist* **83**: 49-55, plate 1.

—— (1950) British *Hadena compta*. *Entomologist* **83**: 212-213.

—— (1951) Aberrations of British Macrolepidoptera. *Entomologist's Rec. J. Var.* **63**: 158-164, plate V.

—— (1951) Aberrations of British Macrolepidoptera. *Entomologist's Rec. J. Var.* **63**: 229-233, plate VII.

—— (1951) Aberrations of British Arctiidae. *Entomologist's Rec. J. Var.* **63**: 262-266, plate VIII.

—— (1951) Notes on the larva of *Luceria virens* Linnaeus. *Entomologist's Rec. J. Var.* **63**: 271-273.

—— (1951) *Aspitates gilvaria* Fabricius ssp. *burrenensis* ssp. nov. *Entomologist's Gazette* **2**: 100-101, plate 2.

Cockayne, E. A. (1952) The genetics of *Selenia bilunaria* ab. *eblanaria* Baynes. *Entomologist's Rec. J. Var.* **64**: 6-7.

—— (1952) *Leucania loreyi* Duponchel in Ireland. *Entomologist's Rec. J. Var.* **64**: 255-256.

—— (1952) *Oressigena* - a nomen nudum. *Entomologist's Rec. J. Var.* **64**: 291-292.

—— (1952) *Procus versicolor* Borkhausen in Ireland. *Entomologist's Rec. J. Var.* **64**: 347-348.

—— (1953) The Rothschild-Cockayne-Kettlewell Collection. *Entomologist's Rec. J. Var.* **65**: 97-99.

—— (1953) Aberrations of British Geometridae. *Entomologist's Rec. J. Var.* **65**: 161-169, plate XII.

—— (1953) *Dysstroma truncata* Hufnagel ssp. *concinnata* Stephens. *Entomologist's Rec. J. Var.* **65**: 273-275.

—— (1954) The Irish subspecies of *Calamia virens* L. (Lep. Caradrinidae). *Entomologist's Gazette* **5**: 155-156.

—— (1954) *Eumenis semele clarensis* de Lattin; an aberration, not a sub-species. *Entomologist's Rec. J. Var.* **66**: 39.

—— (1954) Additions to the Rothschild-Cockayne-Kettlewell Collection. *Entomologist's Rec. J. Var.* **66**: 185-186.

Cockayne, E. A. and Williams, H. B. (1956) The variation of *Cryphia muralis* Forst. 1771, and an Irish subspecies. *Entomologist's Gazette* **7**: 63-73, plate A.

Collenette, C. L. (1933) Birds preying on butterflies. *Ir. Nat. J.* **4**: 168.

Collier, R. V., Emmet, A. M., Long, R., Looker, I. E., Porter, K. J., Shreeve, T. G. and Simcox, D. J. (1989) Hesperiidae. Pp 50-72. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(1). *Hesperiidae-Nymphalidae. The butterflies.* Harley Books, Colchester.

Collins, G. A. (1998) 1997 annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **11**: 84-89. (Cook, R. R.: *Diaphora mendica* (Cl.) f. *rustica* (Hb.) bred from a female, Burrin, Co. Galway; Middleton, H. G. M. and Scanes, J. T.: *Eupithecia venosata plumbea* Huggins from the west coast)

—— (1999) 1998 Annual exhibition. British butterflies. *British Journal of Entomology and Natural History* **12**: 142-146. (Barrington, R. D. G.: Irish *Argynnis aglaja* (L.) ab. *wimani* Holmgren (plate 1, fig. 12); good series of Irish *Polyommatus icarus mariscolore* (Kane) including female ab. *post-obsoleta* Gillmer and a male ab. *obsoleta* Gillmer; McCormick, R.: a selection of Irish butterflies from the Burren - localities and species given)

—— (1999) 1998 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **12**: 147-152. (McCormick, R. F.: moths from the Burren; Wedd, D. J.: specimens taken or reared in Ireland)

—— (2000) 1999 Annual exhibition. *British Journal of Entomology and Natural History* **13**: 149-156. (British Macrolepidoptera. Jenkins, A.: *Luperina nickerlii knilli* Boursin from North Kerry, *Diaphora mendica* (Cl.) f. *rustica* Hb. from Burren; McCormick, R. F.: Irish moths; Phillips, J. W.: *Eupithecia venosata plumbea* Huggins; Wedd, D.: moths from Inch, North Kerry)

Collins, G. A. (2001) 2000 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **14**: 140-145, plate 2. (Clancy, S.: Burren; Skinner, B.: Irish moths; Spalding, A.: *Luperina nickerlii* subspecies)

—— (2002) 2001 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **15**: 156-161. (Spalding, A.: *Luperina nickerlii* (Frey))

—— (2004) 2003 Annual Exhibition. British Macro-Lepidoptera. *British Journal of Entomology and Natural History* **17**: 150-155. (Wedd, D.: Aran Islands)

Cooke, N. (1861) (Zygaenidae). *Entomologist's Weekly Intelligence* **10**: 172-173.

Cooke, N. and Burchell, -. (1858) (*Miana expolita*). *Entomologist's Annual* **1858**: 101. (only the surname of Burchell is given)

Cooper, B. A. (1936) *Plusia gamma* (The Silver Y Moth). *Journal of the Entomological Exchange and Correspondence Club* **No 12**: 6-7. (**1**: 86-87 reprinted 1985)

Cooper, F. (1872) *Hadena chanopodii. Entomologist* **6**: 14-15.

Copeland, R. B., Dowley, L. J. and Moore, J. F. (1993) The vulnerability of the Irish potato industry to harmful organisms. Pp 95-106. *In* Kavanagh, J. A. and Brennan, P. (eds) (1993) *Plant health and 1992.* Royal Irish Academy, Dublin.

Copeman, J. L. (1899) *Colias edusa* in Co. Cork. *Ir. Nat.* **8**: 228.

Cordeux, J. (1884) Migration of moths. *Entomologist's mon. Mag.* **21**: 30.

Corke, D. (1989) Of pheasants and fritillaries: is predation by pheasants (*Phasianus colchicus*) a cause of the decline in some British butterfly species? *British Journal of Entomology and Natural History* **2**: 1-14.

—— (2001) *Leptidea reali* not known from Britain. *Entomologist's Rec. J. Var.* **113**: 254.

Corver, S. C., Muus, T. S. T. and Ellis, W. N. (2011) *Caloptilia hemidactylella*: new to The Netherlands. Notes on distribution, morphology and biology (Lepidoptera: Gracillariidae). *Entomologische Berichten* **71**: 31-38. (correction of Irish record)

Cosgrave, E. M. (1872) Abundance of *Satyrus semele* in Ireland. *Entomologist* **6**: 142.

Cotton, D. C. F. (1989) The ecology of Inishmurray. Pp 16-50. *In* Cotton, D. C. F. (ed.) *The future of Inishmurray.* Regional Technical College, Sligo. (Lep. p. 29)

—— (1993) Notes on migrant Lepidoptera in Sligo and Leitrim with special reference to 1992. *Ir. Nat. J.* **24**: 260-263.

—— (1998) Butterflies and moths recorded from Inishmurray. P. 58. *In* McGowan, J. (ed.) *Inishmurray. Gale, stone and fire. Portrait of a fabled island.* Aeolus, Mullaghmore.

Coulter, G. (1913) (*Pieris napi*). *Entomologist* **46**: 143.

—— (1914) (*Melitaea aurinia*). *Entomologist* **47**: 110.

—— (1916) Late appearance of *Argynnis* (*Dryas*) *paphia. Entomologist* **49**: 287.

—— (1917) *Pyrameis atalanta*, *Cyaniris argiolus*, and *Macroglossa stellatarum* in Donegal. *Entomologist* **50**: 236.

—— (1917) (*Sphinx* (*Herse*) *convolvuli*). *Entomologist* **50**: 231.

—— (1918) *Colias edusa* in Ireland. *Entomologist* **51**: 187.

—— (1918) *Geometra vernaria* in Ireland. *Entomologist* **51**: 187.

—— (1938) (*Polyommatus icarus*). *Entomologist* **71**: 288.

Craske, J. C. B. (1937) (*Aglais urticae*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1937-38**: 21.

Crawford, W. M. (1921) An aberration of *Argynnis aglaia*. *Ir. Nat.* **30**: 15 & *Proceedings of the Belfast Naturalists' Field Club* **8**: 185.
—— (1927) Oak Beauty Moth in County Down. *Ir. Nat. J.* **1**: 215 & *Proceedings of the Belfast Naturalists' Field Club* **8**: 452.
—— (1928) Small Eggar Moth in County Fermanagh. *Ir. Nat. J.* **2**: 55.
—— (1929) Small Eggar Moth in County Fermanagh. *Ir. Nat. J.* **2**: 182.
—— (1930) (Moths). *Proceedings of the Belfast Naturalists' Field Club* **9**: 110.
—— (1930) Convolvulus Hawk Moths in Belfast. *Ir. Nat. J.* **3**: 133.
—— (1930) Death's-Head Moth from Portrush. *Ir. Nat. J.* **3**: 133.
—— (1930) Small Copper Butterfly. *Ir. Nat. J.* **3**: 133.
—— (1930) The Meadow Brown Butterfly, *Epinephele ianira* L., in Ireland. *Ir. Nat. J.* **3**: 55-56.
—— (1931) Striped Hawk-Moth at Belfast. *Ir. Nat. J.* **3**: 217.
—— (1931) (*Deilephila livornica*). *Proceedings of the Belfast Naturalists' Field Club* **9**: 151.
—— (1932) Death's-Head Hawk-Moth at Belfast. *Ir. Nat. J.* **4**: 119.
—— (1933) The Camberwell Beauty, *Vanessa antiopa* L., in Northern Ireland - corrections. *Ir. Nat. J.* **4**: 155-156.
—— (1933) Records of immigrant insects. *Ir. Nat. J.* **4**: 175.
—— (1933) Painted Lady and Red Admiral at Belfast. *Ir. Nat. J.* **4**: 200.
—— (1933) Frequency of Convolvulus Hawk Moth and Clouded Yellow Butterfly. *Ir. Nat. J.* **4**: 220.
—— (1933) Milkweed Butterfly, *Danaus plexippus* L. in Co. Dublin. *Ir. Nat. J.* **4**: 244.
—— (1933) Painted Lady and Red Admiral in Cos Antrim and Donegal. *Ir. Nat. J.* **4**: 219.
—— (1934) Silver-Washed Fritillary at Belfast. *Ir. Nat. J.* **5**: 18.
—— (1934) Early immigrant butterfly. *Ir. Nat. J.* **5**: 62.
—— (1934) Immigrant insects in 1934. *Ir. Nat. J.* **5**: 77.
—— (1934) Immigrant insects in 1934. *Ir. Nat. J.* **5**: 120.
—— (1934) Peacock and other butterflies. *Ir. Nat. J.* **5**: 121.
—— (1934) Records of immigrant insects, 1934. *Ir. Nat. J.* **5**: 158.
—— (1935) Early immigrant insects. *Ir. Nat. J.* **5**: 230.
—— (1935) Hibernation of Peacock Butterflies. *Ir. Nat. J.* **5**: 232.
—— (1935) Immigrant insects, 1935. *Ir. Nat. J.* **5**: 311.
—— (1936) Peacock butterflies hibernating in Belfast. *Ir. Nat. J.* **6**: 101.
—— (1936) Records of immigrant and hibernating insects. *Ir. Nat. J.* **6**: 146-147.
—— (1937) New Irish moth (*Acronycta auricoma*). *Ir. Nat. J.* **6**: 280.
—— (1937) Butterflies at *Buddelia*. *Ir. Nat. J.* **6**: 303.
—— (1937) "New Irish Moth" - a correction. *Ir. Nat. J.* **6**: 304.
—— (1938) Silver-Striped Hawk-Moth in Co. Antrim. *Ir. Nat. J.* **7**: 114.
—— (1939) Death's-Head Hawk-Moth in Co. Down. *Ir. Nat. J.* **7**: 189.
—— (1939) Early appearance of Peacock Butterflies. *Ir. Nat. J.* **7**: 189.
—— (1939) (Book review). *Ir. Nat. J.* **7**: 193.
—— (1940) Hibernation of a Peacock Butterfly. *Ir. Nat. J.* **7**: 304.
Crewe, H. H. (1876) *Eupithecia* larvae in Cork and Kerry. *Entomologist* **9**: 260.

Crewe, H. Harpur (1863) Lepidoptera. Notes on some of the Genus *Eupithecia*. *The Entomologist's Annual* **1863**: 116-128.

—— (1869) Description of the larva of *Dianthoecia capsophila*. *Entomologist* **4**: 295-296.

—— (1876) *Eupithecia* larvae in Ireland. *Entomologist* **9**: 260.

Cribb, P. W. and Porter, K. (1975) Notes on the British races of *Erebia epiphron* Knoch. *Bulletin of the Amateur Entomologists' Society* **34**: 62-68.

Crichton, M. and Ní Lamhna, E. (1975) *Provisional Atlas of Butterflies of Ireland*. An Foras Forbatha, Dublin.

Crolla, J., Tunmore, M. and Bowles, N. (2002) Identification of American Painted Lady *Vanessa virginiensis* (Drury) and historical status in the British Isles. *Atropos* **16**: 3-18. (Cos Cork and Kerry)

Cromien, S. and O'Connor, J. P. (2001) A record of the Monarch Butterfly *Danaus plexippus* L. (Insecta: Lepidoptera) from County Wexford, Ireland, with a review of other Irish occurrences. *Bulletin of the Irish Biogeographical Society* **25**: 3-6.

Crory, A. (2012) Stephens' Gem *Megalographa biloba* (Steph.) - a new species to Ireland. *Atropos* **47**: 32-35.

Crory, A. and Anderson, R. (2013) Site Guide: Murlough Nature Reserve, Co. Down, Northern Ireland. *Atropos* **50**: 17-25.

Cruttwell, C. T. (1900) Great flight of *Colias edusa* in the West of Ireland. *Entomologist's mon. Mag.* **36**: 1.

Cummins, S. and O'Halloran, J. (2002) An assessment of the diet of nestling stonechats *Saxicola torquata* using compositional analysis. *Bird Study* **49**: 139-145.

Cuppage, L. A. (1894) *Deilephila livornica* in Co. Meath. *Ir. Nat.* **3**: 175.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London.

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London.

—— (1850) Notes on the smaller British moths, with descriptions of some nondescript or imperfectly characterized species. *Annals and Magazine of Natural History* Series 2. **5**: 110-121. (p. 119 "the 9th July on Turk Mountain, near Killarney")

Curtis, W. Parkinson (1944) *Eupithecia tripunctaria* H. S. (= *albipunctaria* Haw.) (Lep.). *Journal of the Society for British Entomology* **2**: 169-170.

Cuthbert, H. G. (1898) An entomologist at Ballybunion, Co. Kerry. *Ir. Nat.* **7**: 65-68.

—— (1899) *Macroglossa stellatarum* in Co. Dublin. *Ir. Nat.* **8**: 163.

—— (1901) Abundance of *Vanessa io* in 1901. *Ir. Nat.* **10**: 203.

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Environmental monitoring of *Archips podana* (Fruit Tree Tortrix Moth) in Bramley apple orchards in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 101-104.



Cuthbertson, A. G. S. and Murchie, A. K. (2006) Environmental monitoring of economically important invertebrate pests in Bramley apple orchards in Northern Ireland. *International Journal of Environmental Science and Technology* **3**(1) DOI: 10.1007/BF03325901 (Hem.: *Rhopalosiphum insertum*; Lep.: *Archips podana*)

D'Arcy, G. (1992) Fauna observed on Clare Island, Co Mayo, June 14-18 1990. *Ir. Nat. J.* **24**: 33-34.

D'Arcy, J. N. (1975) *Apatele euphorbiae* var *myricae*. *Entomologist's Rec. J. Var.* **87**: 300.

Dakin, R. M. (1907) *Deiopeia pulchella* in Ireland. *Entomologist* **40**: 12.

Dale, C. W. (1902) Catalogue of the Lepidoptera of Ireland. *Entomologist* **35**: 115.

Dalton, M. and Dalton, H. (1920) *Leucophasis sinapis* in Co. Dublin. *Ir. Nat.* **29**: 132.

Dannreuther, T. (1933) Migration records. *Entomologist* **66**: 251-257.

—— (1933) *Pyrameis cardui* and *P. atalanta* in Ireland. *Entomologist* **66**: 119.

—— (1934) The Milkweed Butterfly, *Danaus plexippus* L., in the British Isles in 1933. *Entomologist's mon. Mag.* **70**: 180-181.

—— (1934) Migration records. *Entomologist* **67**: 10-14, 163-164, 186-190, 211-215.

—— (1935) Migration records. *Entomologist* **68**: 5-9.

—— (1935) Migration records. 1935. *Entomologist* **68**: 139-141, 161-162, 185-188, 252-259.

—— (1936) Migration records. 1935. *Entomologist* **69**: 1-6.

—— (1936) *Oenistis quandra* L.: is it a migrant? *Entomologist* **69**: 282.

—— (1936) Migration records. 1936. *Entomologist* **69**: 154-156, 225-230, 255-259.

—— (1937) Migration records. 1936. *Entomologist* **70**: 5-10.

—— (1937) Winter records of migrant Lepidoptera. *Entomologist* **70**: 92-93.

—— (1937) First appearance dates of *Plusia gamma* and *Colias croceus* in Great Britain. *Entomologist* **70**: 141.

—— (1937) Migration records. 1937. *Entomologist* **70**: 176-180, 228-231.

—— (1938) Migration records. 1937. *Entomologist* **71**: 60-63.

—— (1938) Early butterflies in 1938. *Entomologist* **71**: 83.

—— (1938) Migration records, 1938. *Entomologist* **71**: 176-178.

—— (1939) Migration records. 1938. *Entomologist* **72**: 9-15, 119-122.

—— (1939) Migration records. 1939. *Entomologist* **72**: 273-283.

—— (1940) Migration records. 1939. *Entomologist* **73**: 29-33.

—— (1940) Migration records. 1940. *Entomologist* **73**: 110-111.

—— (1941) Migration records. 1940. *Entomologist* **74**: 54-62.

—— (1942) Migration records. 1941. *Entomologist* **75**: 55-63.

—— (1943) Hibernation of *Vanessa atalanta*. *Entomologist* **76**: 210.

—— (1943) Migration records. 1942. *Entomologist* **76**: 73-80.

—— (1943) Early appearance of Death's Head Hawk Moth, 1943. *Entomologist* **76**: 128.

—— (1944) Records of the Striped Hawk-moth (*Celerio lineata livornica* Esp.) seen or bred in the British Isles in 1943. *Journal of the Society for British Entomology* **2**: 215-224.

—— (1944) Migration records. 1943. *Entomologist* **77**: 55-60, 73-77.

—— (1945) Migration records. 1944. *Entomologist* **78**: 49-56.

—— (1946) Migration records. 1945. *Entomologist* **79**: 97-110.

—— (1946) Records of the Bath White Butterfly (*Pontia daplidice* (L.)) observed in the British Isles during 1945. *Journal of the Society for British Entomology* **3**: 1-7.

Dannreuther, T. (1947) Migration records. 1946. *Entomologist* **80**: 107-112, 137-144.
—— (1948) Migration records. 1947. *Entomologist* **81**: 83, 110-117.
—— (1948) The American Painted Lady. *Bulletin of the Amateur Entomologists' Society* **7**: 219. (Co. Cork)
—— (1949) Records of five rare vagrant Wainscots (Lep., *Leucania*) observed in the British Isles during 1945-48. *Journal of the Society for British Entomology* **3**: 51-53.
—— (1949) Records of Heliothinae (Lep.) observed in the British Isles during 1945 - 48. *Journal of the Society for British Entomology* **3**: 53-58.
—— (1953) Preliminary report on the 1952 Winter immigration of *Vanessa cardui* and other Lepidoptera recorded in the British Isles. *Entomologist* **86**: 50-51.
Davey, P. (1998) The winter immigration of 1998. *Atropos* **5**: 7-11.
—— (2008) The winter immigration of 2008. *Atropos* **34**: 11-21. (moths)
Davies, J. H. (1891) (*Nonagria typhae*). *Proceedings of the Belfast Naturalists' Field Club* **3**: 373-374.
Davis, A. M. and Tordoff, G. M. (2018) Microlepidoptera review of 2017. *Entomologist's Rec. J. Var.* **30**: 281-306.
—— (2019) Microlepidoptera review of 2018. *Entomologist's Rec. J. Var.* **131**: 283-309.
—— (2020) Microlepidoptera review of 2019. *Entomologist's Rec. J. Var.* **132**: 253-280.
Davis, D. R. and Deschka, G. (2001) Biology and systematics of the North American *Phyllonorycter* leafminers on Salicaceae, with a synoptic catalog of the Palearctic species (Lepidoptera: Gracillariidae). *Smithsonian Contributions to Zoology* **No. 614**. 89pp.
Davis, T. (1997) Pyralid and plume recording scheme. *Atropos* **3**: 29. (*Pyrausta purpuralis* and *P. ostrinalis*)
—— (2006) National moth night results: 9 July 2005. *Atropos* **29**: 20-32. (results from six Irish counties)
Davis, T. and Brook, S. (2005) National moth night results: 22 May 2004. *Atropos* **25**: 23-32. (Cos Down, Mayo and Wicklow)
Davis, T. and Haynes, F. (2004) National moth night 2003 results. *Atropos* **22**: 13-20. (Cos Down, Galway and Wicklow)
Daws, W. (1918) A few notes on the Season of 1917, mainly in or near Mansfield, Notts. *Entomologist's Rec. J. Var.* **30**: 109-111.
de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.
De Lattin, G. (1952) Two new subspecies of *Hipparchia semele* Linnaeus. *Entomologist's Rec. J. Var.* **64**: 335-336.
de Worms, C. G. M. (1962) *Celerio galii* Rott. and *C. livornica* Esp. in Co. Kerry. *Entomologist's Rec. J. Var.* **74**: 187.
—— (1963) The Burren and Co. Kerry, May and June, 1962. *Entomologist's Rec. J. Var.* **75**: 23-28.
—— (1963) Recent additions to the British Macrolepidoptera with a review of the present status of certain other migrant and colonising species. *Entomologist's Gazette* **14**: 101-119, plates 13 and 14.

de Worms, C. G. M. (1967) A review of some Macrolepidoptera in Ireland in the post-war years. *Entomologist's Gazette* **18**: 161-176.

—— (1979) Notodontidae. pp 39-65. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **9**. *Sphingidae-Noctuidae Noctuinae and Hadeninae.* The Curwen Press, London.

—— (1979) Lymantriidae. Pp 66-78. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **9**. *Sphingidae-Noctuidae Noctuinae and Hadeninae.* The Curwen Press, London.

—— (1979) Arctiidae. Pp 78-110. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **9**. *Sphingidae-Noctuidae Noctuinae and Hadeninae.* The Curwen Press, London.

Dean, J. D. (1931) An analysis of certain records relative to the migration of *Agrius* (=*Sphinx*) *convolvuli* Linne. *Entomologist's mon. Mag.* **67**: 31-35.

Delap, M. J. (1902) *Colias edusa* in West Kerry. *Ir. Nat.* **11**: 324.

—— (1909) Early appearance of *Macroglossa stellatarum*. *Ir. Nat.* **11**: 140.

Demuth, R. P. (1951) Collecting Noctuidae in Ireland. *Entomologist's Gazette* **2**: 103-105.

—— (1971) *Antitype xanthomista* Gregson in Ireland. *Entomologist's Rec. J. Var.* **83**: 24.

Dennis, E. B., Morgan, B. J. T., Roy, D. B. and Brereton, T. M. (2017) Urban indicators for UK butterflies. *Ecological Indicators* **76**: 184-193. (Northern Ireland)

Dennis, R. and Shreeve, T. (1996) *Butterflies on British and Irish offshore islands.* Gem Publishing Company, Wallingford.

Dennis, R. L. H., Donato, B., Sparks, T. H. and Pollard, E. (2000) Ecological correlates of island incidence and geographical range among British butterflies. *Biodiversity and Conservation* **9**: 343-359.

Dennis, R. L. H. and Hardy, P. B. (2018) *British and Irish Butterflies. An island perspective.* CABI Publishing.

Dennis, R. L. H., Hardy, P. B., Dapporto, L. and Triantis, K. (2012) Nestedness in island faunas: novel insights into island biogeography through butterfly community profiles of colonization ability and migration capacity. *Journal of Biogeography* **39**: 1412-1426.

Dennis, R. L. H., Porter, K. and Williams, W. R. (1986) Ocellation in *Coenonympha tullia* (Müller) (Lepidoptera: Satyridae) II. Population differentiation and clinal variation in the context of climatically induced antipredator defence strategies. *Entomologist's Gazette* **37**: 133-172.

Dennis, R. L. H., Shreeve, T. G. and Williams, W. R. (1995) Affinity gradients among European butterflies: evidence for an historical component to species distributions. *Entomologist's Gazette* **46**: 141-153.

Dennis, R. L. H., Williams, W. R. and Shreeve, T. G. (1991) A multivariate approach to the determination of faunal structures among European butterfly species (Lepidoptera: Rhopalocera). *Zoological Journal of the Linnean Society* **101**: 1-49.

Dewar, G. (1880) Diurni in Ireland. *Entomologist* **13**: 61.

Dickson, R. J. (2008) 2007 Annual Exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **21**: 162-166. (McCormick, R. F.: *Pyrausta sanguinalis*, *Anania funebris*)

Dickson, R. J. (2009) 2008 Annual Exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **22**: 165-170. (Clarke, J.: *Merrifieldia tridactyla*, *Hypercallia citrinalis*)

Dietzsch, A. C., Stanley, D. A. and Stout, J. C. (2011) Relative abundance of an invasive alien plant affects native pollination processes. *Oecologia* **167**: 469-479.

Dillon, R. E. (1894) Six years' entomology in Co. Galway. *Entomologist* **27**: 88-91, 169-171, 190-191.

—— (1894) Lepidoptera at Clonbrock, Co. Galway. *Entomologist* **27**: 322.

—— (1898) Irish Field Club Union. Kenmare Conference. Lepidoptera. *Ir. Nat.* **7**: 209-210.

—— (1900) *Colias edusa* in Ireland. *Ir. Nat.* **9**: 246.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species)

Dingwall, R. D. (1949) *Nymphalis antiopa* in Donegal. *Entomologist* **82**: 204.

Dockery, M. and Cook, L. M. (2020) The British butterfly collection at the Manchester Museum. *Entomologist's mon. Mag.* **156**: 135-149. (Irish Green-veined Whites)

Dockery, M. and Logunov, D. V. (2018) The Lepidoptera Collection of William Raymond Wooff (1929-2006) in the Manchester Museum. *Entomologist's mon. Mag.* **154**: 271-295.

Doherty, A. (1927) Death's-Head Hawk Moth at Strabane. *Ir. Nat. J.* **1**: 276.

—— (1927) Convolvulus Hawk-moth in County Tyrone. *Ir. Nat. J.* **1**: 275.

Donaldson, C. (1992) A new moth record for Ireland *Cybosia mesomella* (L.) (Lepidoptera) Four-dotted Footman. *Ir. Nat. J.* **24**: 79-80.

Donaldson, G. (1910) (*Gonepteryx rhamni*). *Proceedings of the Belfast Naturalists' Field Club* **6**: 400.

—— (1911) (*Gonepteryx rhamni*). *Ir. Nat.* **20**: 70.

Doncaster, L. (1906) Collective enquiry as to progressive melanism in Lepidoptera. *Entomologist's Rec. J. Var.* **18**: 165-168, 206-208, 222-226.

Donovan, C. (1885) *Sphinx convolvuli* in Co. Cork. *Entomologist's mon. Mag.* **22**: 134.

—— (1885) *Plusia chrysitis* with supposed fungoid growths on the head. *Entomologist's mon. Mag.* **22**: 67.

—— (1890) (*Sphinx convolvuli* in 1889). *Entomologist* **23**: 18.

—— (1906) *Deilephila livornica* in Co. Cork. *Entomologist* **39**: 190.

—— (1906) Lepidoptera of County Cork. *Entomologist* **39**: 236.

—— (1928) *Leucania unipuncta* Haw. in Co. Cork. *Entomologist* **61**: 110.

—— (1928) *Leucania vitellina*, Hub., in Co. Cork. *Entomologist.* **61**: 280-281.

—— (1929) *Leucania unipuncta*, Haw., in Co. Cork. *Entomologist* **62**: 34.

—— (1929) *Pyrameis virginiensis* in Co. Cork. *Entomologist* **62**: 231-232.

—— (1930) *Sphinx convolvuli* in Co. Cork. *Entomologist* **63**: 283.

—— (1931) *Plusia ni* in Co. Cork. *Entomologist* **64**: 146.

—— (1931) Further occurrence of *Plusia ni* in Co. Cork. *Entomologist* **64**: 258.

—— (1932) The crambid, *Eromene ocellea*, in Co. Cork. *Entomologist* **65**: 67-68.

—— (1932) Some notodontids in Kerry. *Entomologist* **65**: 238.

Donovan, C. (1933) *Cidaria picata* in Ireland. *Entomologist* **66**: 98.
—— (1933) Some notodontids in Kerry. *Entomologist* **66**: 162.
—— (1933) (*Acronycta alni* in Co. Limerick). *Entomologist* **66**: 173.
—— (1933) *Deiopeia pulchella* in Ireland. *Ir. Nat. J.* **4**: 175.
—— (1934) What is the Irish ab. *sulphurea* Schoyen of *Pieris napi* L. *Entomologist* **67**: 138.
—— (1934) The Plume, *Platyptilia punctidactyla*, in Ireland. *Entomologist* **67**: 259-260.
—— (1934-1935) A catalogue of the Noctuae of Ireland. *Entomologist* **67**: 121-124, 152-155, 172-175, 193-195, 220-223, 268-272. **68**: 11-14.
—— (1936) *Miselia oxyacanthae* var. *capucina*. *Entomologist* **69**: 53.
—— (1936) The Deltoid, *Hypena obsitalis*, Hub., in Ireland. *Entomologist* **69**: 264-265.
—— (1936) *A catalogue of the Macrolepidoptera of Ireland*. With supplement 31st December 1936. Cheltenham & London. Privately printed.
—— (1936) An unusual and brief abundance of *Phibalapteryx fluviata* Hub. in Co. Cork. *Entomologist* **69**: 290.
—— (1939) *Perinephele lancealis* (Lep. Pyralidae) new to the Irish List. *Entomologist* **72**: 219-220.
—— (1940) *Deilephila galii* in Ireland. *Entomologist* **73**: 212.
—— (1941) *Melitaea* (*Euphydryas*) *aurinia*. *Entomologist* **74**: 27.
—— (1941) *Cleora jubata*, an addition to the Irish List. *Entomologist* **74**: 184-185.
—— (1941) Captures of insects in Ireland. *Entomologist's Rec. J. Var.* **53**: 69.
—— (1942) *Rhodometra sacraria* in Ireland. *Entomologist* **75**: 36.
—— (1945) The pyralid, *Margarodes unionalis* in Ireland. *Entomologist* **78**: 190-191.
Donovan, C. and Donovan, R. J. F. (1901-1902) A list of the Lepidoptera of County Cork. *Entomologist* **34**: 333-336. **35**: 10-14.
Donovan, R. J. F. (1900) Lepidoptera occurring in County Cork. *Entomologist* **33**: 143-147.
Dorrity, C. (1944) Convolvulus Hawk-Moth in Co. Dublin. *Ir. Nat. J.* **8**: 182.
Doubleday, H. (1873) *Dianthoecia compta*. *Entomologist* **6**: 563-564.
—— (1870) The Cabinet List of the *Lepidoptera* of Great Britain and Ireland by Dr. Knaggs. *Entomologist* **5**: 103-107.
Douglas, J. (1868) *Deilephila lineata* in Kildare. *Entomologist's mon. Mag.* **5**: 105.
—— (1868) *Sphinx convolvuli*, and a second specimen of *Deilephila lineata* in Kildare. *Entomologist's mon. Mag.* **5**: 162.
—— (1916) (*Zygaena* spp.). *Entomologist* **49**: 44.
Dowling, D. N. (1977) The Dingy Shears (*Enargia ypsillon* D. & S.) in Ireland. *Entomologist's Rec. J. Var.* **89**: 83.
—— (1978) New county records for three moths. *Ir. Nat. J.* **19**: 203.
—— (1979) *Lita virgella* Thunberg (Lep: Gelechiidae) a species new to Ireland. *Entomologist's Rec. J. Var.* **91**: 73.
Dowling, D. N. and de Courcy Williams, M. (1976) Burren Lepidoptera in 1975. *Bulletin of the Amateur Entomologists' Society* **35**: 84-88.
Downes, J. A. (1934) Some races of *Lasiocampa quercus*. *Proceedings of the South London Entomological and Natural History Society* **1934-35**: 94-98.
Druitt, A. (1906) *Deilephila livornica* and *Heliothis peltigera* in Ireland. *Entomologist* **39**: 236-237.

Druitt, A. (1927) *Epinephele janira* from Ireland. *Proceedings of the Entomological Society of London A* **2**: 82.

Dunbar, K. (1918) The life history of some British Lepidoptera. *Proceedings of the Belfast Naturalists' Field Club* **7**: 347-349.

Dunlop, K. M. (1930) The Brimstone Butterfly in Kildare. *Ir. Nat. J.* **3**: 20.

—— (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 156.

—— (1931) Rare Moths in Cos. Kildare. and Wexford. *Ir. Nat. J.* **3**: 257.

—— (1932) Peacock Butterfly hibernating in house. *Ir. Nat. J.* **4**: 39.

—— (1933) Southern entomological notes. *Ir. Nat. J.* **4**: 220.

—— (1940) Some recent captures of moths in Co. Kildare. *Ir. Nat. J.* **7**: 305.

—— (1942) Irish records for Death's-Head Hawk Moth, 1940. *Ir. Nat. J.* **8**: 9.

—— (1942) Butterflies in the Barrow Valley in 1941. *Ir. Nat. J.* **8**: 10-11.

—— (1950) Irish insect records. *Ir. Nat. J.* **10**: 17.

Dunlop, S. (2016) Identifying leaf miners. *Biodiversity Ireland* **Issue 14**: 16. (Col., Dipt., Hym., Lep.)

Dunn, T. C. (1969) Collecting in the Aran Islands, July 28th-August l0th, 1968. *Entomologist's Gazette* **20**: 271-278.

Eagleson, R. (1962) Late appearance of Clouded Yellow *Colias croceus*. *Ir. Nat. J.* **14**: 19.

Easterbrook, M. (2010) *Butterflies of Britain and Ireland: a field and site guide*. A & C Black Publishers Ltd, London. 352pp.

Easton, N. T. (1948) *Pieris napi* L. ab *rotunda*, ab. nov. *Entomologist's Rec. J. Var.* **60**: 121-122.

Eastwood, J. E. (1891) Notes on Lepidoptera from various localities. *Entomologist* **24**: 299.

Edelsten, H. M. (1929) (*Lycaena dispar*). *Proceedings of the South London Entomological and Natural History Society* **1929-30**: 81.

—— (1931) The British species of *Nonagria*. *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 1-5.

—— (1936) Book Review. *Entomologist* **69**: 123-124. (review of Donovan, 1936)

—— (1938) *Lithosia depressa* and *Lithosia griseola* in Ireland. *Entomologist* **71**: 81.

Edelsten, J. M. (1938) Microlepidoptera recent additions to the British list exhibited by H. M. Edelsten F.R.E.S. on behalf of the Department of Entomology, British Museum (Natural History), by permission of the trustees. *Proceedings of the Royal Entomological Society of London A* **13**: 97-98.

Edmunds, R. (2013) News from the Recording Schemes. Leaf-Mining Lepidoptera Recording Scheme. *Entomologist's Rec. J. Var.* **125**: 9-10. (*Stigmella aurella*)

Eds (1996) Irish Annulet *Odonthognophos dumetata* (Treitschke) subspecies *hibernica* (Forder). *Atropos* **1**: 34, plate 1.

Eeles, P. (2014) The Irish Mountain Ringlet. <http://www.dispar.org/reference.php?id=1>

—— (2014) *Life cycles of British & Irish butterflies*. Pisces Publications, Newbury.

—— (2014) Marsh Fritillary *Euphydryas aurinia* (Rottemburg) f. *hibernica* (Birchall) oviposition observations in Dublin, Ireland in 2013. *Entomologist's Rec. J. Var.* **126**: 15-19.

Ellerton, J. (1967) A fortnight in Connemara, 12th to 29th August 1966. *Entomologist's Rec. J. Var.* **79**: 125-127.

—— (1970) Microlepidoptera added to the British list since L. T. Ford's review. *Proceedings and Transactions of the British Entomological and Natural History Society* **3**: 33-41.

Elliott, B. (1995) 1994 annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **8**: 181-188. (Gill, N.: species taken or bred from Ireland; Wedd, D.: species taken in Ireland)

—— (1996) 1995 annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **9**: 211-218. (Hart, C.: *Platyptilia tesseradactyla* L. from the Burren)

—— (2014) British microlepidoptera. *British Journal of Entomology and Natural History* **27**: 110. (Clare: *Clepsis rurinana*)

—— (2017) Obituary Bernard Francis Skinner 28 July 1939 to 7 February 2017. *Entomologist's Rec. J. Var.* **129**: 103-104. (Irish connection)

Elliott, B. and Skinner, B. (1993) Migrant Lepidoptera in the west of Ireland in 1992. *Entomologist's Rec. J. Var.* **105**: 179-181.

—— (1995) Some preliminary notes on *Odontognophos dumetata* Treitschke ssp. *hibernica* Forder (Lep.: Geometridae). *Entomologist's Rec. J. Var.* **107**: 1-3.

—— (1995) More observations on *Eublemma ostrina* (Hübner) - the Purple Marbled (Lep.: Noctuidae). *Entomologist's Rec. J. Var.* **107**: 161.

Ellis, E. E. and Bond, K. G. M. (2017) First Irish record of *Lozotaeniodes formosana* (Frölich) [Lep.: Tortricidae]. *Entomologist's Rec. J. Var.* **129**: 302.

Ellis, R. (2019) A Light Knot Grass *Acronicta menyanthidis* in Buckinghamshire (VC24) and some other recent records of interest. *Entomologist's Rec. J. Var.* **131**: 239-241.

Ellison, C. S. S. (1933) Scarcity of the Spotted Flycatcher and Small Tortoiseshell Butterfly. *Ir. Nat. J.* **4**: 148.

Ellison, M. (1865) *Colias edusa* in Ireland. *Entomologist* **2**: 324.

—— (1868) *Urapteryx sambucaria* in the County Wicklow. *Entomologist* **4**: 122.

Ellison, R. E. (1954) *Eilema caniola* in Ireland. *Entomologist* **87**: 196.

Emmet, A. M. (1954) *Nonagria algae* Esper (*cannae* Ochs.) (Lep., Caradrinidae) in Ireland. *Entomologist* **87**: 31.

—— (1968) Lepidoptera in West Galway. *Entomologist's Gazette* **19**: 45-58.

—— (1969) (Communication: Irish Microlepidoptera including *Lithocolletis quinqueguttella* Staint, *Ancylis inornatana* H.-S., *Stigmella hybnerella* Hübn., *Dechtiria pulverosella* Staint., *Nepticula ignoblella* Staint., *Coleophora adjunctella* Hodgk.). *Proceedings and Transactions of the British Entomological and Natural History Society* **2**: 127-128.

—— (1970) The discovery of the larva of *Coleophora tamesis* Waters (Lep. Coleophoridae). *Entomologist's Rec. J. Var.* **82**: 1-2.

—— (1970) (Exhibits: first bred specimens of *Coleophora tamesis* Waters from West Galway). *Proceedings and Transactions of the British Entomological and Natural History Society* **3**: 16.

—— (1970) *Stigmella* (*Nepticula*) *paradoxa* Frey (*nitidella* Heinemann) (Lep. Nepticulidae) - a species new to Britain. *Entomologist's Rec. J. Var.* **82**: 3-5.

Emmet, A. M. (1971) Notes on some of the British Nepticulidae (Lep.). *Entomologist's Rec. J. Var.* **83**: 136-142, 163-171, 240-248, 278-282.

—— (1971) More Lepidoptera in West Galway. *Entomologist's Gazette* **22**: 3-18.

—— (1971) *Eupithecia trisignaria* Herrich-Schaffer and *E. tripunctaria* Herrich-Schaffer (Lep., Geometridae) - a correction. *Entomologist's Gazette* **22**: 140.

—— (1971) (Exhibits: *Blastotere laevigatella* Zell. (Yponomeutidae) new to Ireland). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 2.

—— (1971) (Communications: *Perizona taeniata* Steph., *Mesoacidalia charlotta* Haw., *Celastrina argiolus* L.). *Proceedings and Transactions of the British Entomological and Natural History Society Soc.* **4**: 4.

—— (1971) (Exhibits: six species of Microlepidoptera from the Burren). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 93-94.

—— (1971) (Exhibits: *Hypercallia citrinalis* Scop.; *Stigmella parradoxa* Frey (Nepticulidae) from the Burren). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 94.

—— (1971) (Exhibits: *Pieris napi* form *hibernica* Schmidt from West Galway). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 96.

—— (1973) *Caloptilia robustella* Jackh (Lep., Gracillariidae) a species newly recognised in Britain. *Entomologist's Gazette* **24**: 305-306, plates 10 and 11.

—— (1973) Notes on some of the British Nepticulidae II. *Entomologist's Rec. J. Var.* **85**: 278-283.

—— (1973) (Exhibits: mention of Burren material of *Trifurcula griseella* Wollf (Nepticulidae)). *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 58.

—— (1974) (Exhibits: *Nepticula auromarginella* Richardson from the Burren). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 47.

—— (1975) (*Leucoptera orobi* Stainton (Lyonetiidae)). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 88.

—— (1975) (*Scythris vagabundella* H.-S. from West Galway). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 91.

—— (1975) (Exhibits: *Phyllonorycter lautella* Zell.). *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 26.

—— (1975) (Exhibits: *Stigmella auritella* Skala). *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 61-62.

—— (1975) Notes on the oak-feeding species of *Phyllonorycter* Hubner (Lep. Gracillariidae). *Entomologist's Rec. J. Var.* **87**: 240-245.

—— (1975) A preliminary list of the Nepticulidae of Ireland. *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 31-38.

—— (1976) *Stigmella auritella* (Skala) (Lep. Nepticulidae): a species new to Britain. *Entomologist's Rec. J. Var.* **88**: 105-109.

—— (1976) Nepticulidae. Pp 171-267. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

Emmet, A. M. (1976) Tischeriidae. Pp 272-276. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

—— (1976) Heliozelidae. Pp 300-306. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

—— (1978) (Exhibits: *Caloptilia falconipennella* (Hübner), new to Ireland, and *C. elongella* (L.)). *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 53.

—— (1979) (Exhibits: *Cosmiotes consortella* (Stainton)). *Proceedings and Transactions of the British Entomological and Natural History Society* **12**: 61.

—— (1979) The history and status in Britain of *Cosmiotes consortella* (Stainton, 1851) (*exiguella* Frey, 1885) (Lep. Elachistidae). *Entomologist's Rec. J. Var.* **91**: 13-15.

—— (1981) Records of Nepticulidae in Ireland since 1975. *Ir. Nat. J.* **20**: 186-188.

—— (1981) (Exhibit: *Phyllonorycter salicicolella* (Sircom)). *Proceedings and Transactions of the British Entomological and Natural History Society* **14**: 120.

—— (1982) The early stages of *Parornix finitimella* (Zeller) and *P. torquillella* (Zeller) (Lepidoptera: Gracillariidae). *Entomologist's Rec. J. Var.* **94**: 53-56.

—— (1983) (Exhibits: *Coleophora tamesis*). *Proceedings and Transactions of the British Entomological and Natural History Society* **16**: 56-57.

—— (1985) Ochsenheimeriidae. Pp 208-212. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1985) Lyonetiidae. Pp 212-239. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1991) Chart showing the life-history and habits of the British Lepidoptera. Pp 61-303. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(2). *Lasiocampidae-Thyatiridae with life history chart of the British Lepidoptera.* Harley Books, Colchester.

—— (1996) Schreckensteiniidae. Pp 123-125. *In* Emmet, A. M. (ed.) *The moths and butterflies of Great Britain and Ireland.* **3**. Harley Books, Colchester.

—— (2000) Tables showing the number of Microlepidoptera recorded from the British Isles, May 2000. *Entomologist's Rec. J. Var.* **112**: 155-159.

Emmet, A. M. and Langmaid, J. (eds) (2002) *Oecophoridae to Scythridae. The moths and butterflies of Great Britain and Ireland* **4**(1). Harley Books, Colchester.

Emmet, A. M. and Langmaid, J. R. (1997) Microlepidoptera in Ireland, September, 1995. *Entomologist's Gazette* **48**: 147-155.

Emmet, A. M., Langmaid, J. R., Bland, K. P., Corley, M. F. V. and Razowski, J. (1996) Coleophoridae. Pp 126-338, plates 1-8, 12-15. *In* Emmet, A. M. (ed.) *The moths and butterflies of Great Britain and Ireland.* **3**. Harley Books, Colchester.

Emmet, A. M., Watkinson, I. A. and Wilson, M. R. (1985) Gracillariidae. Pp 244-363. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

Enright, C., MacLonnreactaigh, C. O., Hardy, P. B. and Dennis, R. L. H. (2017) Butterflies on an Irish sea lough drumlin archipelago: the influence of survey and island geography. *Entomologist's Gazette* **68**: 111-129.

Evans, W. F. (1845) 'Entomological Society'. *Annals and Magazine of Natural History* **16**: 65-66. (description of an ancient Irish amulet made in the form and used as a charm against the Murrian Caterpillar)

Eyre, D. (2004) Moth records from Sherkin Island, Co Cork, 1977-1997: macros. *Ir. Nat. J.* **27**: 468-480.

Fairclough, R. (1968) *Luperina nickerlii* in the Dingle Peninsula, August 1967. *Entomologist's Rec. J. Var.* **80**: 129-133.

Faris, R. C. (1940) Wood White Butterfly - a withdrawal. *Ir. Nat. J.* **7**: 308.

—— (1943) Brimstone Butterfly in Co. Cavan. *Ir. Nat. J.* **8**: 83.

—— (1944) Brimstone Butterfly in Ireland. *Ir. Nat. J.* **8**: 232.

—— (1944) Wood White Butterfly and second brood of Common Blue in Co. Cavan. *Ir. Nat. J.* **8**: 181.

Farran, G. P. (1894) *Cirrhoedia xerampelina* and *Triphosia dubitata* in Co. Dublin. *Ir. Nat.* **3**: 243.

—— (1896) *Asteroscopus sphinx* in Co. Dublin. *Ir. Nat.* **5**: 317.

—— (1898) *Dasydia obfuscaria* in Co. Donegal. *Ir. Nat.* **7**: 271.

Farren, W. (1892) (*Arctia mendica*). *Entomologist's Rec. J. Var.* **3**: 96 & *Entomologist's mon. Mag.* **28**: 137.

Fassnidge, W. (1933) Immigrant Lepidoptera. *Entomologist* **66**: 135.

—— (1945) *Chloroclystis debiliata* Hb. (Lep.) in Hampshire. *Journal of the Society for British Entomology* **2**: 279-280.

Faulkner, J. (2007) County Armagh Wildlife Society - Hon. Secretary's report to members for 2006. *Ir. Nat. J.* **28**: 430-431. (no species given)

Faulkner, J. S. (1978) A cascade of caterpillars. (*Phalera bucephala*). *Ir. Nat. J.* **19**: 288.

Feehan, J. (1983) Butterflies and moths: Order Lepidoptera. Pp 178-179, 507. *In* Feehan, J. (ed.) (1983) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

—— (1996) *Coleophora pyrrhulipennella* Zeller 1839 (Lepidoptera: Coleophoridae): a life history study. *Entomologist's Gazette* **47**: 169-177.

Fetherstonhaugh, S. R. (1869) Scarcity of butterflies in Ireland. *Entomologist* **4**: 322.

—— (1869) *Pieris brassicae. Entomologist* **4**: 322.

—— (1870) *Dicranura vinula* with three wings. *Entomologist* **5**: 114-115.

—— (1870) *Phibalapteryx lapidata* in Ireland. *Entomologist* **5**: 215-216.

—— (1886) *Acherontia atropos* in Ireland. *Entomologist* **19**: 279-280.

—— (1887) *Dianthoecia capsophila* feeding on carnations. *Entomologist* **20**: 231.

Finch, D., Copland, A. S., Kelly, M. and McMahon, B. J. (2016) A comparison between the butterfly communities on cutaway peatland habitats. *Ir. Nat. J.* **35**: 44-49.

Fisher, K. (1938) Migrations of the Silver-Y Moth (*Plusia gamma*) in Great Britain. *J. Anim. Ecol.* **7**: 230-247.

Fisher, N. (1933) Phenological report for 1932. *Ir. Nat. J.* **4**: 159-161.

Fitzgibbon, M. (1892) Erratic appearance of *Cerura vinula*. *Entomologist* **25**: 287-288.

Fitzgibbon, M. (1892) (*Colias edusa*, *C. hyale*, &c. in England in 1892. Additional records). *Entomologist* **25**: 312-313.

—— (1893) Lepidoptera at Woodenbridge, Co. Wicklow. *Ir. Nat.* **2**: 175.

Fitzpatrick, Ú., Regan, E. and Lysaght, L. (2011) Ireland's biodiversity in 2010. *Biodiversity Ireland* **Issue 7**: 4-5.

Fleming, S. and O'Mahony, P. (1978) New Munster locations for the Holly Blue, *Celastrina argiolus* L. (Lepidoptera: Lycaenidae) and Wood White *Leptidea sinapis* L. (Lepidoptera: Pieridae) Butterflies. *Ir. Nat. J.* **19**: 193-195.

Fleming, S. and Reardon, N. (1976) Occurrence of *Colias hyale* L., Pale Clouded Yellow (Lepidoptera: Pieridae) in Co. Cork. *Ir. Nat. J.* **18**: 314.

Flemyng, W. W. (1877) *Colias edusa* in the County Limerick. *Entomologist's mon. Mag.* **14**: 110.

—— (1877) *Acherontia atropos* in the County Cork. *Entomologist's mon. Mag.* **14**: 158.

—— (1878) *Acherontia atropos* in the County Cork. *Entomologist's mon. Mag.* **15**: 41 & *Entomologist* **11**: 160.

—— (1879) Absence of *Colias edusa* in Ireland in 1878. *Entomologist* **12**: 17.

—— (1880) Larva of *Smerinthus populi*. *Entomologist* **13**: 243-244.

—— (1882) Notes on Irish Rhopalocera. *Entomologist* **15**: 14-15.

—— (1882) Fungus growing on dead larva. *Entomologist* **15**: 91-92.

—— (1882) *Plusia bractea* in Co. Clare. *Entomologist* **15**: 235.

—— (1884) *Cossus ligniperda* in Ireland. *Entomologist* **17**: 19.

—— (1887) *Sphinx convolvuli* in Co. Waterford. *Entomologist's mon. Mag.* **24**: 159-160.

—— (1889) *Pieris rapae* in February. *Entomologist* **22**: 112.

—— (1894) Early Appearance of *Lycaena argiolus* and *Pararge egeria*. *Entomologist* **27**: 180.

—— (1894) *Leucophasia sinapis* and *Melitaea artemis* in Co. Waterford. *Entomologist* **27**: 221.

—— (1894) *Leucophasia sinapis* and *Melitaea aurinia* in Co. Waterford. *Ir. Nat.* **3**: 157.

—— (1894) Early appearance of butterflies. *Ir. Nat.* **3**: 114.

—— (1897) *Oenistis quadra* in Co. Waterford. *Ir. Nat.* **6**: 282.

—— (1899) *Colias edusa* in Co. Waterford. *Ir. Nat.* **8**: 208.

—— (1899) *Colias edusa* in Co. Waterford. *Entomologist* **32**: 235.

—— (1900) *Colias edusa* in Ireland in 1899. *Entomologist's mon. Mag.* **36**: 28-29.

—— (1902) *Oenistis quadra* in Co. Waterford. *Ir. Nat.* **11**: 19.

—— (1902) *Lycaena argiolus* in Co. Waterford. *Ir. Nat.* **11**: 172.

—— (1904) Lepidoptera at Portlaw, Co. Waterford. *Ir. Nat.* **13**: 294.

—— (1908) *Acherontia atropos* in Co. Waterford. *Entomologist* **41**: 309.

—— (1917) *Colias edusa* near Tramore, Co. Waterford. *Ir. Nat.* **26**: 193.

—— (1918) *Sphinx convolvuli* attacked by larvae of Diptera. *Ir. Nat.* **27**: 13.

—— (1919) *Argynnis aglaia* in Co. Waterford. *Ir. Nat.* **28**: 55.

Fletcher, D. S. (1968) *Amphipyra pyramidea* (L.) and *A. berbera* Rungs (Lep., Noctuidae), two species confused. *Entomologist's Gazette* **19**: 91-106, plates 5 and 6.

Fletcher, T. Bainbrigge (1901) The Naval Manoeuvres of 1900, from an entomologist's point of view. *Entomologist* **34**: 71-72.

Fletcher, T. Bainbrigge and Pierce, F. N. (1940) A new Irish plume-moth (Lep. Alucit.) with a note on its genitalia. *Entomologist's Rec. J. Var.* **52**: 25-28.

Flint, W. H. (1904) (*Dianthoecia compta*). *Entomologist* **37**: 192 & *Entomologist's mon. Mag.* **40**: 141.

Flynn, C. (2014) *Nocturnal Lepidoptera of Midland Raised Bogs*. MSc. Thesis, Biology Department, NUI Maynooth, Co. Kildare, Ireland.

Flynn, C., Griffin, C. T., Coll, J. and Williams, C. D. (2016) The diversity and composition of moth assemblages of protected and degraded raised bogs in Ireland. *Insect Conservation and Diversity* **9**: 302-319.

Flynn, J. E. (1929) Clouded Yellow Butterfly in West Cork. *Ir. Nat. J.* **2**: 161.

—— (1929) Red Admiral and Painted Lady Butterflies at Glengarriff, County Cork, in March. *Ir. Nat. J.* **2**: 162.

—— (1935) Immigrant butterflies. *Ir. Nat. J.* **5**: 232.

—— (1936) Entomological notes from Glengarriff, 1935. *Ir. Nat. J.* **6**: 76.

—— (1936) Migrant insects near Glengarriff, Co. Cork. *Ir. Nat. J.* **6**: 76.

—— (1937) Early appearance of Painted Lady Butterfly and other insects at Glengariff. Ir. Nat. J. 6: 199. (Hym., Lep.)

—— (1937) Immigrant insects, 1936. *Ir. Nat. J.* **6**: 170.

—— (1937) Early appearance of Painted Lady Butterfly: some further notes. *Ir. Nat. J.* **6**: 227-228.

—— (1943) Hibernation versus migration. *Entomologist* **76**: 190-191.

Foot, A. Wynne (1869) Notes on Irish Lepidoptera. *Proceedings of the Natural History Society of Dublin* **6**: 5-15.

—— (1870) Brief notes on entomology. *Proceedings of the Natural History Society of Dublin* **6**: 62-66.

Forbes, W. (1934) Irish notes. *Entomologist's Rec. J. Var.* **46**: 95.

Ford, E. B. (1923) The geographical races of *Heodes phlaeas* L. *Transactions of the Entomological Society of London* **1923**: 692-743.

Forder, P. (1993) *Odonthognophos dumetata* Treitschke (Lepidoptera: Geometridae) new to the British Isles with description of a new form, *hibernica* Forder ssp. nov. *Entomologist's Rec. J. Var.* **105**: 201-202.

Foster, G. (1893) (Lepidoptera). *Ir. Nat.* **2**: 28.

—— (1924) *Mamestra persicariae* and *Aporophyla nigra*. *Ir. Nat.* **33**: 46.

—— (1924) Kerry moths. *Ir. Nat.* **33**: 46-47.

—— (1926) Collecting Lepidoptera on Divis Mountain. *Ir. Nat. J.* **1**: 47.

—— (1926) Moth collecting among the Dianthoecidae. *Ir. Nat. J.* **1**: 133-134.

—— (1927) Fluctuations of moths. *Ir. Nat. J.* **1**: 178.

—— (1927) Entomological notes. *Ir. Nat. J.* **1**: 178.

—— (1927) Moth hunting among the reeds on a September night. *Ir. Nat. J.* **1**: 252-253.

—— (1929) Humours of moth collecting. *Ir. Nat. J.* **2**: 162-163.

—— (1930) Flounced Rustic Moth in County Down. *Ir. Nat. J.* **3**: 40-41.

—— (1930) *Emmelesia decolorata*, Hb., at Purdysburn, Co. Down. *Ir. Nat. J.* **3**: 41.

—— (1930) *Asthena candidata* Schiff., at Rostrevor, Co. Down. *Ir. Nat. J.* **3**: 41.

Foster, G. (1932) Lepidoptera of County Down. *Proceedings of the Belfast Naturalists' Field Club* **9**, Appendix 5: 63-92.

—— (1932) Stray visits to Kerry in search of moths. *Entomologist's Rec. J. Var.* **44**: 1-4, 23-27.

—— (1932) Criticism, corroboration, additions to "Recent Additions to the Irish Fauna and Flora". Proc. R.I.A. 29(b), l pp. 19-20 (1929). *Entomologist's Rec. J. Var.* **44**: 63-64.

—— (1933) Donegal in August. *Entomologist's Rec. J. Var.* **45**: 82-83, 100-103.

—— (1933) *Bupalus piniaria* L. *Entomologist's Rec. J. Var.* **45**: 27.

—— (1933) Notes from Ireland. *Entomologist's Rec. J. Var.* **45**: 37-38.

—— (1934) Donegal in 1933. *Entomologist's Rec. J. Var.* **46**: 55-57.

Foster, W. (2006) Stamps of approval. *Antenna* **30**: 120-121. (illustrations of Irish stamps depicting Lepidoptera)

Fowler, F. (1872) *Vanessa antiopa*. Co. Louth. *Entomologist* **6**: 236-237.

Fox, R. (2006) 1996-2006: ten years of butterfly recording, monitoring and conservation. *Atropos* **28**: 32-44.

—— (2010) 2009: the year of the Painted Lady *Vanessa cardui* (L.). *Atropos* **40**: 3-14.

—— (2012) Record Humming-bird Hawk-moth *Macroglossum stellatarum* (L.) (Lep.: Sphingidae) immigration into Britain and Ireland in 2011. *Entomologist's Rec. J. Var.* **124**: 140-143.

Fox, R. and Asher, J. (2010) *2010 Atlas of butterflies in Britain and Ireland*. Butterfly Conservation, Wareham (Butterfly Conservation Report **No. S10-20**).

Fox, R. and Dennis, R. L. H. (2010) Winter survival of *Vanessa atalanta* (Linnaeus, 1758) (Lepidoptera: Nymphalidae): a new resident butterfly for Britain and Ireland? *Entomologist's Gazette* **61**: 94-103.

Fox, R. and Evans-Hill, L. (2020) The hunt for Red Underwing (Linnaeus, 1767). *Atropos* **66**: 15-19.

Fox, R., Roy, D. B., Dennis, R. L. H. and Asher, J. (2010) A new look at the changing distributions of British butterflies: different analysis, same results. *Entomologist's Gazette* **61**: 225-234.

Fox, R., Warren, M., Asher, J., Jeffcoate, G., Jeffcoate, S. and Harding, P. (2001) Migrant butterflies and the millennium atlas. *Entomologist's Rec. J. Var.* **113**: 103-112.

Fox, R., Warren, M., Harding, P., Asher, J., Jeffcoate, G. and Jeffcoate, S. (2003) Butterflies for the new millennium: mapping butterfly distributions in Britain (Lepidoptera). Pp 79-86. *In Changes in ranges: invertebrates on the move. Proceedings of the 13th International Colloquium of the European Invertebrate Survey, Leiden, 2-5 September 2001.* European Invertebrate Survey, the Netherlands.

Frampton, R. E. E. (1935) (*Argyrotoxa bergmanniana*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1935-36**: 41.

Fraser, F. C. (1946) What is the condition of an immigrant butterfly on its arrival in this country: fresh or worn? *Journal of the Society for British Entomology* **3**: 10-13.

Frazer, J. F. D. (1975) Irish butterflies. *Proceedings and Transactions of the British Entomological and Natural History Society* **8**: 58.

Freke, P. E. (1897) *Leucophasia sinapis* near Kildare. *Ir. Nat.* **6**: 220.

—— (1897) *Bupalus piniaria* in Co. Kildare. *Ir. Nat.* **6**: 284.

Freke, P. E. (1897) *Colias edusa* in Ireland. *Ir. Nat.* **6**: 302.
—— (1903) Some British forms of *Melitaea aurinia*. *Entomologist* **36**: 108-112.
French, J. M. (1986) *Danaus plexippus* (L.) (Lepidoptera: Danaidae) in Ireland. *Entomologist's Gazette* **37**: 61.
French, R. A. (1969) Migration of *Laphygma exigua* Hubner (Lepidoptera: Noctuidae) to the British Isles in relation to large-scale weather systems. *Journal of Animal Ecology* **38**: 199-210.
French, R. A. and Hurst, G. W. (1969) Moth immigrations in the British Isles in July 1968. *Entomologist's Gazette* **20**: 37-44.
French, R. A. and White, J. H. (1960) The Diamond-Back Moth outbreak of 1958. *Plant Pathology* **9**: 77-84.
Frohawk, F. W. (1895) *Sphinx convolvuli* in 1895. *Entomologist* **28**: 311.
—— (1899) *Colias edusa* in Co. Cork. *Entomologist* **32**: 235.
—— (1916) *Anosia plexippus* in Ireland. *Entomologist* **49**: 285-286.
—— (1916) (*Anosia plexippus*). *Proceedings of the South London Entomological and Natural History Society* **1916-17**: 105.
—— (1917) (*Anosia plexippus*). *Proceedings of the South London Entomological and Natural History Society* **1917-18**: 39.
—— (1917) (*Limenitis sibilla*). *Proceedings of the South London Entomological and Natural History Society* **1917-18**: 31.
—— (1928) Variation of *Pieris napi*. *Entomologist* **61**: 76-77.
—— (1936) Vanessids in South Ireland. *Entomologist* **69**: 263.
—— (1940) *Euchloë cardamines* in March. *Entomologist* **73**: 155.
—— (1940) *Vanessa cardui* in early March. *Entomologist* **73**: 155.
Fryer, J. C. and Fryer, H. F. (1906) Field work in 1905. *Entomologist* **39**: 139-141.
Fryer, J. C. F. (1928) (Lepidoptera in 1927: random notes) Ireland. *Entomologist* **61**: 111.
Furneaux, W. S. (1897) *Butterflies and moths (British)*. Out-door world library. Longmans, Green, London.
Fust, H. Jenner (1874) Lepidoptera in North Wales. *Entomologist's mon. Mag.* **10**: 179-180.
Gadge, S. W. (1910) (*Arctia caja*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 112.
Gaedike, R. (2009) A new synonym of *Trichophaga tapetzella* (Linnaeus, 1758) (Lepidoptera: Tineidae). *Entomologist's Gazette* **60**: 85-87.
Gardner, A. (1997) In search of the Irish Annulet *Odontognophos dumetata hibernica* (Treitschke). *Atropos* **2**: 34-36.
Garrett, H. E. (1921) (*Zygaena hippocrepidis*). *Proceedings of the South London Entomological and Natural History Society* **1921-22**: 33.
Gibbs, A. E. (1912) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 69-70.
—— (1912) The Genus *Coenonympha*. *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 13-20.
Gibbs, D. (2004) *Coleophora frischella* (Linnaeus, 1758) (Lepidoptera: Coleophoridae) confirmed as a British species. *Entomologist's Gazette* **55**: 73-80.

Gibson, M. R. (1971) (Exhibits: Lepidoptera from Ireland). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 6-7.

Gilchrist, W. L. R. E. (1979) Sphingidae. Pp 20-39. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **9**. *Sphingidae-Noctuidae Noctuinae and Hadeninae.* The Curwen Press, London.

Gill, B. (1874) *Notodonta bicolora* in Ireland. *Entomologist's mon. Mag.* **10**: 213.

Gillespie, G. (1965) Humming-bird Hawk Moth in Tyrone. *Ir. Nat. J.* **15**: 22.

Gillespie, G. W. (1943) Tyrone notes in 1942. *Ir. Nat. J.* **8**: 76-77.

—— (1945) The Miller, *Acronicta leporina*, in Co. Tyrone. *Ir. Nat. J.* **8**: 308-309.

Glanville, J. (1952) Early appearance of butterflies in Cork. *Ir. Nat. J.* **10**: 301.

Glazebrook, W. E. (1882) *Amphydasis betularia* in Ireland. *Entomologist* **15**: 17-18.

Gleeson, M. (1899) Notes on Lepidoptera. *Ir. Nat.* **8**: 250.

Goater, B. (1980) Practical hints (*Eriogaster lanestris* L.). *Entomologist's Rec. J. Var.* **92**: 18.

—— (1991) Lasiocampidae. Pp 306-323. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(2). *Lasiocampidae-Thyatiridae with life history chart of the British Lepidoptera.* Harley Books, Colchester.

—— (1991) Saturniidae. Pp 324-326. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(2). *Lasiocampidae-Thyatiridae with life history chart of the British Lepidoptera.* Harley Books, Colchester.

—— (1991) Drepanidae. Pp 331-339. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(2). *Lasiocampidae-Thyatiridae with life history chart of the British Lepidoptera.* Harley Books, Colchester.

—— (1991) Thyatiridae. Pp 340-353. *In* Emmet, A. M. and Heath, J. (eds) *The moths and butterflies of Great Britain and Ireland.* **7**(2). *Lasiocampidae-Thyatiridae with life history chart of the British Lepidoptera.* Harley Books, Colchester.

—— (1994) The genus *Earias* Hübner, (1825) (Lepidoptera: Noctuidae) in Britain and Europe. *Entomologist's Rec. J. Var.* **106**: 233-239.

—— (1995) A new subspecies of *Luperina nickerlii* Freyer, 1845 from south-east England, with notes on the other subspecies found in Britain, Ireland and mainland Europe. *Entomologist's Rec. J. Var.* **107**: 127-131.

—— (2009) Eric William Classey, 2.xi.1916-7.ix.2008. *Entomologist's Gazette* **60**: 74-75. (Burren)

Godfray, H. C. J. and Sterling, P. H. (1993) The British Epermeniidae. *British Journal of Entomology and Natural History* **6**: 141-143, plate V. (British Isles)

—— (1996) Epermeniidae. Pp 115-123, plate 12. *In* Emmet, A. M. (ed.) *The moths and butterflies of Great Britain and Ireland.* **3**. Harley Books, Colchester.

Good, J. A. (1986) Insect visitors to *Iris pseudacorus* (Iridaceae) in Ireland. *Ir. Nat. J.* **22**: 71-74. (Dipt., Hym., Lep.)

—— (1998) The potential role of ecological corridors for habitat conservation in Ireland: a review. *Irish Wildlife Manuals* **No. 2**. 72pp.

—— (2001) Farms as biogeographical units: 1. Habitats and faunal changes as influenced by farmer decision-making on a mixed farm in south Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 220-247.

Good, J. A. (2009) Local and regional studies of Cryptobiota: esoteric stamp collecting or essential ecology? *Bulletin of the Irish Biogeographical Society* **33**: 115-169.

Good, J. A. and Boxshall, M. (2014) Reassessment of early nineteenth century Tardy records in the Dublin University Zoological Museum: Part 2 (Coleoptera, Lepidoptera, Neuroptera and biographical note). *Bulletin of the Irish Biogeographical Society* **38**: 263-271.

Goodbody, I. M. (1950) Notes on butterflies in Co. Wexford. *Ir. Nat. J.* **10**: 17.

Goodey, B. and Howard, R. (2001) National Moth Night 2000 - the results. *Atropos* **13**: 6-15. (Cos Down and Roscommon; *Mythimna unipuncta*, *Heliothis armigera*)

—— (2002) National Moth Night 2001 results. *Atropos* **16**: 45-57. (Cos Down and Offaly)

Goodson, A. L. (1948) New varieties of *Argynnis cydippe* L. and *Lycaena phlaeas* L. *Entomologist* **81**: 177-178.

—— (1960) Additions to the Rothschild-Cockayne-Kettlewell Collection of British Lepidoptera in the British Museum (Natural History) at Tring. *Entomologist* **93**: 126-127, 146-149, 173-175.

—— (1968) Additions to the Rothschild-Cockayne-Kettlewell Collection of British Lepidoptera in the British Museum (Natural History) at Tring. *Entomologist's Gazette* **19**: 241-249.

Gordon, S. (1857) (*Acherontia atropos*). *Proceedings of the Natural History Society of Dublin* **2**: 26.

Goss, H. (1887) Variation in Lepidoptera from various localities. *Naturalist* **1887**: 69.

Gould, P. and Woiwod, I. (2009) Like moths to a flame: The Rothamsted Light trap Network Monitoring long-term changes in our common moths. *Biodiversity Ireland* **Issue 4**: 7-8.

Graham, A. (2006) The Welsh Clearwing *Synanthedon scoliaeformis* (Borkh.). *Atropos* **27**: 3-8. (south-west Ireland)

Graham, M. W. R. de V. and Faris, R. C. (1950) Second brood of the Hollyblue Butterfly in Leix, Wicklow and Wexford. *Ir. Nat. J.* **10**: 98.

Graham-Smith, G. S. and Graham-Smith, W. (1929) *Pieris brassicae*, L., with special reference to aberrations from Aberdeenshire. *Entomologist's Rec. J. Var.* **41**: 173-180.

Grant, Mrs K. J. (1937) An historical study of the migrations of *Celerio lineata lineata* Fab. and *Celerio lineata livornica* Esp. (Lepidoptera). *Transactions of the Royal Entomological Society of London* **86**: 345-357.

Graves, P. P. (1924) *Brenthis euphrosyne* in Ireland. *Entomologist* **57**: 198-199.

—— (1929) British and Irish races of *Epinephele jurtina. Proceedings of the Entomological Society of London A* **4**: 114-115.

—— (1930) Notes on collecting in Ireland. *Entomologist's Rec. J. Var.* **42**: 97-102.

—— (1930) The British and Irish *Maniola jurtina*, L. (Lep.). *Entomologist* **63**: 49-54, 75-81, plate l.

—— (1935) A few notes on Irish Lepidoptera. *Ir. Nat. J.* **5**: 286.

—— (1947) A second generation of *Celastrina argiolus*, L. *Ir. Nat. J.* **9**: 22.

—— (1947) Butterflies in South-West Ireland in 1946. *Entomologist* **80**: 71-72.

—— (1948) Irish Lepidoptera in 1947. *Ir. Nat. J.* **9**: 150.

—— (1949) Distribution of the butterflies *Thanaos tages* and *Epinephele tithonus* in Ireland. *Ir. Nat. J.* **9**: 337-338.

Graves, P. P. (1950) The *Irish Erebia epiphron* (Knoch). *Ir. Nat. J.* **10**: 97-98.
—— (1950) The second brood of the Holly Blue in southern Ireland. *Ir. Nat. J.* **10**: 105-106.
—— (1950) Repeated mating of Irish *Pieris napi*. *Entomologist* **83**: 274-275.
—— (1952) Second brood of the Holly Blue in South Ireland. *Ir. Nat. J.* **10**: 275.
—— (1952) Has the Wood White a second brood in Ireland? *Ir. Nat. J.* **10**: 300-301.
—— (1952) "The Claddagh". *Entomologist's Gazette* **3**: 74.
—— (1953) New records of Irish Microlepidoptera. *Ir. Nat. J.* **11**: 79-80.
Green, W. A. (1907) (Butterflies). *Proceedings of the Belfast Naturalists' Field Club* **6**: 16.
Greene, J. (1854) (*Gluphisia crenata*). *The Natural History Review (Proceedings of Societies)* **1**: 159.
—— (1854) A List of Lepidoptera hitherto taken in Ireland, as far as the end of the Geometrae. *The Natural History Review (Proceedings of Societies)* **1**: 165-168, 238-244.
—— (1855) (*Hama furva*). *The Natural History Review (Proceedings of Societies)* **2**: 45.
—— (1857) (*Acherontia atropos*). *The Natural History Review (Proceedings of Societies)* **4**: 79.
—— (1866) A few remarks on Mr Birchall's List of Irish Lepidoptera. *Entomologist* **3**: 155-158.
—— (1868) Lepidoptera; fluid ejected by imago. *Entomologist* **4**: 20.
—— (1869) *Ennomos lumaria. Entomologist* **4**: 250.
—— (1869) *Notodonta trepida. Entomologist* **4**: 260-263.
—— (1881) *Choerocampa celerio* in Sligo. *Entomologist* **14**: 255.
—— (1896) On the value of rare British Lepidoptera. *Entomologist's Rec. J. Var.* **8**: 33-34.
Greer, T. (1898) Notes from East Tyrone. *Entomologist's Rec. J. Var.* **10**: 50.
—— (1898) Note on *Zygaena lonicerae*. *Entomologist's Rec. J. Var.* **10**: 110.
—— (1898) Lepidoptera in Ireland, 1898. *Entomologist's Rec. J. Var.* **10**: 309-310.
—— (1901) Noctuid aberrations in Co. Dublin. *Entomologist's Rec. J. Var.* **13**: 360.
—— (1901) *Agrotis cinerea* - a new Irish moth. *Ir. Nat.* **10**: 202.
—— (1901) Lepidoptera in County Dublin. *Entomologist's Rec. J. Var.* **13**: 333.
—— (1902) Spring Lepidoptera in the North-East of Ireland. *Entomologist's Rec. J. Var.* **14**: 164.
—— (1903) Notes on the Season 1902 in the North of Ireland. *Entomologist's Rec. J. Var.* **15**: 51-52.
—— (1904) Spring notes from County Tyrone. *Entomologist's Rec. J. Var.* **16**: 209-210.
—— (1905) Lepidopterological notes of the Season 1904, in North-East Ireland. *Entomologist's Rec. J. Var.* **17**: 51.
—— (1906) Lepidoptera in 1905 in East Tyrone. *Entomologist's Rec. J. Var.* **18**: 78-79.
—— (1910) *Nyssia zonaria* in Co. Mayo. *Ir. Nat.* **19**: 48.
—— (1916) Lepidoptera from County Tyrone. *Ir. Nat.* **25**: 56-61.
—— (1916) Some recent records of Irish insects. *Ir. Nat.* **25**: 82.
—— (1916) Rare Lepidoptera. *Ir. Nat.* **25**: 82.
—— (1916) Notes on Lepidoptera from East Tyrone in 1916. *Ir. Nat.* **25**: 161-163.
—— (1917) *Hadena protea* in Tyrone. *Ir. Nat.* **26**: 121.
—— (1917) *Hydroecia crinanensis* in Co. Tyrone. *Entomologist's Rec. J. Var.* **29**: 232.

Greer, T. (1918) Notes on Lepidoptera from East Tyrone in 1917. *Ir. Nat.* **27**: 4-6.
—— (1918) *Notodonta bicoloria* in Co. Kerry. *Ir. Nat.* **27**: 65.
—— (1918) The Diurni of East Tyrone. *Entomologist's Rec. J. Var.* **30**: 9-11.
—— (1918) *Zygaena filipendulae* and *Z. lonicerae* hybrids. *Entomologist's Rec. J. Var.* **30**: 187-188.
—— (1919) Notes of the Season 1918 from East Tyrone. *Entomologist's Rec. J. Var.* **31**: 72-74.
—— (1919) Lepidoptera from East Tyrone. *Ir. Nat.* **28**: 118-119.
—— (1919) Variation in *Diaphora mendica* in Ireland. *Entomologist's Rec. J. Var.* **31**: 168.
—— (1920) Lepidoptera from East Tyrone and elsewhere in 1920. *Ir. Nat.* **29**: 132.
—— (1920) Some Lepidoptera from East Tyrone in 1919. *Entomologist's Rec. J. Var.* **32**: 154-156.
—— (1920-21) The Macro-Lepidoptera of County Tyrone. *Entomologist* **53**: 217-221, 274-277. **54**: 31-35, 113-116, 206-208, 258-261, 282-285.
—— (1921) Vanessidae, etc. in East Tyrone in 1921. *Entomologist's Rec. J. Var.* **33**: 201.
—— (1921) *Sesia formicaeformis*, a correction. *Ir. Nat.* **30**: 24.
—— (1921) *Argynnis aglaia* in Co. Tyrone. *Ir. Nat.* **30**: 63.
—— (1921) *Oxigrapha literana* in North of Ireland. *Entomologist* **54**: 173.
—— (1921) *Pyrameis cardui* and *P. atalanta* in East Tyrone. *Entomologist* **54**: 291.
—— (1922) Lepidoptera in East Tyrone, 1922. *Entomologist* **55**: 258-259.
—— (1922) Gynandromorphs of *Euchloë cardamines* in East Tyrone. *Ir. Nat.* **31**: 139.
—— (1922) Abundance of *Euchloë cardamines* in East Tyrone, 1922, a record of gynandromorphs. *Entomologist's Rec. J. Var.* **34**: 183-184.
—— (1923) Notes from the North of Ireland 1923. *Entomologist's Rec. J. Var.* **35**: 178-181.
—— (1923) Abberations of Rhopalocera in East Tyrone, 1922. *Entomologist's Rec. J. Var.* **35**: 36-37.
—— (1923) The Pearl-Bordered Fritillary. *Ir. Nat.* **32**: 107.
—— (1923) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1923-24**: 127-128.
—— (1923) The Lepidoptera of the North of Ireland. *Proceedings of the Belfast Naturalists' Field Club* **8**: (Appendix 4): 1-60.
—— (1923) (Exhibited Lepidoptera from East Tyrone). *Proceedings of the Royal Entomological Society of London* **1923**: 27.
—— (1924) *Epinephele jurtina*, L., var. *addenta*, Mousley. *Entomologist* **57**: 17.
—— (1924) Variation in *Euchloë cardamines*. *Entomologist's Rec. J. Var.* **36**: 91.
—— (1925) Yellow forms of *Pieris napi* in Ireland. *Entomologist's Rec. J. Var.* **37**: 46.
—— (1925) Abberations of Lepidoptera from Northern Ireland. *Entomologist* **58**: 1, plate 1.
—— (1926) *Euchromia rufana*, Scop., in East Tyrone. *Entomologist* **59**: 82-83.
—— (1926) Early Appearance of Spring Lepidoptera. *Entomologist* **59**: 130.
—— (1926) (Vars of Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1926-27**: 123.
—— (1926) *Diacrisia mendica*, Clk, race and var. *rustica*, Hb., in Ireland. *Entomologist's Rec. J. Var.* **38**: 176-177.

Greer, T. (1926) Irregular union between *Pieris napi* and *Euchloë cardamines*. *Entomologist's Rec. J. Var.* **38**: 111.
—— (1926) Yellow male of *Euchloë cardamines*. *Entomologist's Rec. J. Var.* **38**: 111.
—— (1927) Nomenclature. *Entomologist's Rec. J. Var.* **39**: 28.
—— (1927) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 123.
—— (1927) Barrett's Lepidoptera of the British Isles: a correction. *Entomologist* **60**: 75.
—— (1927) Rhopalocera in East Tyrone, 1926. *Entomologist* **60**: 100.
—— (1927) The hibernation of *Melitaea aurinia*. *Entomologist* **60**: 285.
—— (1928) Scarcity of *Euchloë cardamines*. *Entomologist* **61**: 31.
—— (1928) The hibernation of *Melitaea aurinia*. *Entomologist* **61**: 75.
—— (1928) Variation of *Pieris napi*. *Entomologist* **61**: 189.
—— (1928) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1928-29**: 114.
—— (1928) *Euchloë cardamines*, L., ab., williamsi, ab. nov. *Entomologist's Rec. J. Var.* **40**: 33.
—— (1928) Newspaper entomology. *Entomologist's Rec. J. Var.* **40**: 94.
—— (1929) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1929-30**: 81-82.
—— (1929) *Pyrameis cardui*., etc. in N.E. Ireland. *Entomologist* **62**: 17.
—— (1930) *Vanessa io* in East Tyrone. *Entomologist* **63**: 10.
—— (1931) *Aporophyla nigra*, Haw. *Entomologist* **64**: 92.
—— (1931) Abundance of the larva of *Macrothylacia rubi*, L., in Co. Tyrone. *Entomologist's Rec. J. Var.* **43**: 70.
—— (1932) Recent additions to the Irish fauna and flora. *Entomologist's Rec. J. Var.* **44**: 177.
—— (1932) Aberration of *Euchloë cardamines*. *Entomologist* **65**: 283.
—— (1933) Heterocera in Co. Mayo. *Entomologist* **66**: 85.
—— (1933) *Colias croceus* in East Tyrone. *Entomologist* **66**: 235.
—— (1933) Notes from East Tyrone. *Entomologist's Rec. J. Var.* **45**: 154.
—— (1933) Queen wasp and *E. cardamines*. *Entomologist's Rec. J. Var.* **45**: 93-94.
—— (1933) (Lepidoptera). *Ir. Nat. J.* **4**: 248.
—— (1934) Clouded Yellow Butterfly (*Colias croceus*) and Convolvulus Hawk Moth (*Sphinx convolvuli*), etc. in East Tyrone. *Ir. Nat. J.* **5**: 18.
—— (1934) *Euclidia glyphica* in Co. Tyrone. *Entomologist* **67**: 210.
—— (1934) Entomological notes on the Season 1933 in the North of Ireland. *Entomologist's Rec. J. Var.* **46**: 1-4.
—— (1935) Rhopalocera in Co. Tyrone, 1934 with notes on variation. *Entomologist's Rec. J. Var.* **47**: 37, 137.
—— (1935) Hibernation of *Pyrameis atalanta*. *Entomologist's Rec. J. Var.* **47**: 23.
—— (1935) (Vars of Lepidoptera). *Entomologist's Rec. J. Var.* **47**: 106-107.
—— (1935) *Cidaria miata*, L., in January. *Entomologist* **68**: 51.
—— (1935) Migrants in East Tyrone in 1933-34. *Entomologist* **68**: 92.
—— (1936) Gynandrous *Anthocharis cardamines* in Co. Tyrone. **69**: 290.

Greer, T. (1936) Lepidoptera in Co. Clare. *Entomologist's Rec. J. Var.* **48**: 135-136.
—— (1937) *Platyptilia tesseradactyla*, L., in East Tyrone. *Entomologist's Rec. J. Var.* **49**: 104.
—— (1937) The Plume Moth, *Platyptilus tesseradactylus* L. in Co. Tyrone. *Ir. Nat. J.* **6**: 280.
—— (1937) *Platyptilus tesseradactylus* L. in Co. Tyrone. *Entomologist* **70**: 222.
—— (1937) *Coenonympha tullia* (*tiphon*) in Wales. *Entomologist* **70**: 278.
—— (1938) The early Season. *Entomologist* **71**: 118.
—— (1938) The early Spring. *Entomologist's Rec. J. Var.* **50**: 59.
—— (1939) Variation in *Zygaena lonicerae*, Esp. *Entomologist's Rec. J. Var.* **51**: 173.
—— (1939) Some Tortrices from East Tyrone. *Entomologist* **72**: 1-3.
—— (1940) *Plusia bractea* in East Tyrone. *Entomologist* **73**: 4.
—— (1940) *Phalonia ciliella* Hb. and its foodplant in East Tyrone. *Entomologist* **73**: 91.
—— (1940) New records for Irish Lepidoptera. *Entomologist* **73**: 268.
—— (1940) The Season in Co. Tyrone. *Entomologist's Rec. J. Var.* **52**: 137.
—— (1940) *Euphydryas aurinia* new to Snowdonia. *Entomologist's Rec. J. Var.* **52**: 173.
—— (1941) Random notes from East Tyrone, 1940. *Entomologist's Rec. J. Var.* **53**: 54-55.
—— (1942) Random Notes from East Tyrone, 1940. *Entomologist's Rec. J. Var.* **54**: 3-4.
—— (1942) Variation in *Polyommatus icarus* Rott. *Entomologist* **75**: 21.
—— (1943) Variation of *Nymphalis io* in East Tyrone. *Entomologist* **76**: 3.
—— (1943) *Gnophos myrtillata* Thun. in Ireland. *Entomologist* **76**: 39.
—— (1943) Early notes from East Tyrone. *Entomologist's Rec. J. Var.* **55**: 111.
—— (1944) *Procus versicolor* Borkh. in East Tyrone. *Entomologist* **77**: 96.
—— (1944) Additions to the Lepidoptera of County Tyrone. *Entomologist* **77**: 111.
—— (1944) Notes from North of Ireland, 1943. *Entomologist's Rec. J. Var.* **56**: 59-60.
—— (1945) Notes from North of Ireland, 1943. *Entomologist's Rec. J. Var.* **57**: 9-10.
—— (1945) Local Pterophoridae in East Tyrone, 1945. *Entomologist's Rec. J. Var.* **57**: 134-135.
—— (1945) Pieridae and sundews. *Entomologist* **78**: 191.
—— (1945) Lepidoptera in West Donegal, 1944. *Entomologist* **78**: 31.
—— (1945) Early Lepidoptera in East Tyrone. *Entomologist* **78**: 107.
—— (1947) Lepidoptera around a moorland bungalow in East Tyrone. *Entomologist* **80**: 183-186.
—— (1948) Rare aberration of *Vanessa cardui* in East Tyrone. *Entomologist* **81**: 21.
—— (1949) *Argynnis paphia* in North-East Ireland. *Entomologist* **82**: 88.
—— (1949) Entomological notes from East Tyrone; 1948. *Entomologist's Rec. J. Var.* **61**: 27-28.
—— (1949) Entomological notes from East Tyrone; 1948. *Entomologist's Rec. J. Var.* **61**: 67-68.
—— (1949) Spring notes from East Tyrone, 1949. *Entomologist's Rec. J. Var.* **61**: 68.
Gregson, C. S. (1866) *Lithosia caniola* in Ireland. *Entomologist* **3**: 151-152.
—— (1867) Additions to Mr. Birchall's List of the Lepidoptera of Ireland. *Entomologist's mon. Mag.* **4**: 70.
—— (1867) *Sesia philanthiformis* and *Pempelia subornatella* in Howth. *Entomologist* **3**: 327.
—— (1868) *Dianthoecia barrettii* at Howth. *Entomologist* **4**: 97-98.

Gregson, C. S. (1868) Variation in Lepidoptera. *Entomologist* **4**: 49-59.
—— (1869) *Oxyptilus britanniodactylus*, a new Plume. *Entomologist* **4**: 305-306.
—— (1869) Note on the occurrence of *Dianthoecia barrettii*. *Entomologist's mon. Mag.* **6**: 66.
—— (1873) In the matter of *compta* and *conspersa*. *Entomologist* **6**: 518.
—— (1873) *D. conspersa* and *D. compta*. *Entomologist* **7**: 17-19.
—— (1874) *Dianthoecia barrettii* in Howth. *Entomologist* **7**: 17-19.
—— (1885) Note on certain Agrotidae. *Entomologist* **18**: 165-166.
Grierson, P. H. (1901) *Vanessa io* in the West. *Ir. Nat.* **10**: 72.
Groenen, F. (2002) *Eulamprotes immaculatella* (Lepidoptera: Gelechiidae) nieuw voor de Nederlandse fauna. *Entomologische Berichten* **62**: 59-60.
Grosvenor, T. H. L. (1912) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 117.
—— (1921) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1921-22**: 63.
Grundy, D. (2009) Largest site and garden Lepidoptera lists in the British Isles. *Atropos* **36**: 4-8.
—— (2009) The Garden Moth Scheme - 2003 to 2009. *Atropos* **38**: 19-24.
—— (2010) The Garden Moth Scheme - 2010 update. *Atropos* **40**: 54-57.
—— (2011) The Garden Moth Scheme - 2011 update. *Atropos* **43**: 40-43.
—— (2012) The Garden Moth Scheme in 2011. *Atropos* **46**: 33-37.
Gumley, E. M. (1931) Frosted Orange Moth in Co. Antrim. *Ir. Nat. J.* **3**: 232.
—— (1932) *Dasypolia templi* in Ballintoy. *Ir. Nat. J.* **4**: 119-120.
—— (1937) *Polia chi* in Co. Tyrone. *Ir. Nat. J.* **6**: 169.
Gwynn, A. M. (1924) Localities for *Ino statices* and *Dasychira pudibunda*. *Ir. Nat.* **33**: 124.
—— (1943) Some further records for Irish Lepidoptera. *Ir. Nat. J.* **8**: 66-67.
Haggett, G. (1953) An original account of rearing *Luceria virens* Linn. *Entomologist's Gazette* **4**: 314-321, plates 5 and 6.
—— (1965) Another Irish legend. *Entomologist's Rec. J. Var.* **77**: 26.
—— (2009) Eric Classey. *Entomologist's Rec. J. Var.* **121**: 34-36. (Irish collecting)
Haggett, G. M. (1968) Larvae of the British Lepidoptera not figured by Buckler. Part VIII. *Proceedings and Transactions of the British Entomological and Natural History Society* **1**: 57-109, plates I-X.
—— (1970) Larvae of the British Lepidoptera not figured by Buckler. Part XI. *Proceedings and Transactions of the British Entomological and Natural History Society* **3**: 81-92, plates IV-V.
—— (1980) Larvae of the British Lepidoptera not figured by Buckler. *Proceedings and Transactions of the British Entomological and Natural History Society* **13**: 95-105, plates X-XIII.
Haliday, A. H. (1856) Larvae infesting the horns of *Oreas canna*, etc. *The Natural History Review (Proceedings of Societies)* **3**: 23.
Halbert, J. N. (1892) Lepidoptera in Co. Dublin. *Ir. Nat.* **1**: 195.
—— (1893) *Eupithecia dodoneata* on hawthorn. *Entomologist's mon. Mag.* **29**: 140.
—— (1908) (*Cossus ligniperda*). *Ir. Nat.* **17**: 63.

Halbert, J. N. (1909) (*Nyssia zonaria*). *Ir. Nat.* **18**: 98.
—— (1910) (*Cossus ligniperda*). *Ir. Nat.* **19**: 21.
—— (1912) A new Irish moth - *Leucania loreyi*. *Ir. Nat.* **21**: 245.
—— (1918) The Convolvulus Hawk-Moth in Ireland. *Ir. Nat.* **27**: 81-85.
—— (1919) Lepidoptera collected in Ireland by Lieutenant R. E. Cusack. *Ir. Nat.* **28**: 57-71.
—— (1933) (*Ennomos autumnaria*). *Ir. Nat. J.* **4**: 138.
Hall, P. and Wheller, J. (2020) Moth dissection UK website. *British Journal of Entomology and Natural History* **33**: 239-243.
Hall, Z. (1930) Peacock Butterfly hibernating in house. *Ir. Nat. J.* **3**: 56.
Hamilton, G. E. H., Barrett-. (1899) Probable occurrence of *Colias edusa* in Co. Wexford. *Ir. Nat.* **8**: 229.
Hamilton, I. and Heath, J. (1976) Predation of *Pentatoma rufipes* (L.) (Hemiptera: Pentatomidae) upon *Zygaena filipendulae* (L.) (Lepidoptera: Zygaenidae). *Ir. Nat. J.* **18**: 337.
Hamilton, J. (1892) *Vanessa cardui* near Belfast. *Ir. Nat.* **1**: 170.
—— (1900) *Vanessa io* in Co. Down. *Ir. Nat.* **9**: 292.
Hamilton, W. A. (1897) *Cupido minima* near Ballyshannon. *Ir. Nat.* **6**: 200.
Hammond, H. E. (1947) (*Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 32.
—— (1951) *Cucullia*, Schrank: *absinthii*, Linn: (Lep., Agrotidae). The Pale Wormwood Shark. The British status of the species, with particular reference to the Midlands. *Entomologist's Gazette* **2**: 191-197.
Hannemann, H. J. (1978) Lepidoptera. P. 360. *In* Illies, J. (ed.) *Limnofauna Europaea*.
Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263.
Harding, J. and Jacob, M. (2013) Addition of Small Skipper butterfly (*Thymelicus sylvestris*) to the Irish List and notes on the Essex Skipper (*Thymelicus lineola*) (Lepidoptera: Hesperiidae). *Ir. Nat. J.* **32**: 142-144.
Harding, J. and Power, B. (2016) The Comma (*Polygonia c-album*) (Lepidoptera: Nymphalidae) breeding in Ireland, with notes on larval development. *Ir. Nat. J.* **35**: 63-65.
Harding, J. M. (2008) *Discovering Irish butterflies and their habitats*. Privately published, Maynooth.
Harding, P. T. (1981) A handlist of the papers of Denis R. Pack Beresford at the library of the Royal Irish Academy. *Ir. Nat. J.* **20**: 235-240.
Harding, P. T. and Green, S. V. (1991) *Recent surveys and research on butterflies in Britain and Ireland: a species index and bibliography.* Biological Records Centre, Abbots Ripton.
Hardy, J. Ray (1874) *Notodonta bicolora* in Ireland. *Entomologist's mon. Mag.* **10**: 212 & *Entomologist* **60**: 24.
Harker, G. A. (1890) Howth. *Entomologist's Rec. J. Var.* **1**: 160-161.
—— (1891) Howth and Liverpool. *Entomologist's Rec. J. Var.* **2**: 233.
—— (1892) Ireland. *Entomologist's Rec. J. Var.* **3**: 232-233.

Harley, B. (2001) Obituary. Lieutenant Colonel Arthur Maitland Emmet, MBE, TD, MA, Hon. FRES, FLS. 15 July 1908-2 March 2001. *Entomologist's Rec. J. Var.* **113**: 73-78. (Galway)

—— (2005) The future of *The Moths and Butterflies of Great Britain and Ireland*. *Entomologist's Gazette* **56**: 64.

Harmer, A. S. (2016) The twelve days of Christmas: a personal account of the extraordinary immigration of moths in December 2015. *Entomologist's Rec. J. Var.* **128**: 149-151.

Harper, M. W. (1978) Melanism in *Agrochola lychnidis* (Denis & Schiffermuller) (Lepidoptera: Noctuidae). *Entomologist's Gazette* **29**: 215-217, plate 13.

—— (1980) Observations on *Epirrita dilutata* (Denis & Schiffer-Muller) and *Epirrita christyi* (Allen) (Lep., Geometridae) in Herefordshire. *Proceedings and Transactions of the British Entomological and Natural History Society* **13**: 106-116. (*E. christyi* local)

—— (1993) *Agonopterix astrantiae* (Heinemann) (Lepidoptera: Oecophoridae) new to Ireland, and other records. *Entomologist's Gazette* **44**: 56.

Harrison, A. and Main, H. (1906) (*Tethea subtusa*). *Proceedings of the South London Entomological and Natural History Society* **1906-07**: 81.

—— (1906) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1906-07**: 46.

—— (1907) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1907-08**: 98.

Harrison, J. W. Heslop* (1918-19) Gleanings from my notebooks. *Entomologist* **51**: 149-152, 198-200, 219-222. **52**: 38-41, 51-53. (*See also under Heslop-Harrison)

—— (1933) The larvae of *Oporinia christyi* Prout and their variation. *Entomologist* **66**: 145-148.

—— (1934) Gleanings from my notebooks. - VI. *Entomologist* **67**: 125-128.

—— (1948) The Irish and Scottish ranges of *Argynnis paphia* L. (Lep., Nymphalidae). *Entomologist's mon. Mag.* **84**: 43.

—— (1955) The food-plant of *Hydriomena ruberata* Freyer. *Entomologist* **88**: 70.

Harrison, S. (2014) Never mind the gap: climate, rather than insularity, may limit Ireland's species richness. Pp 107-123. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp.

Harrison, S. C. H. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.

Hart, C. (1998) The 1996 Presidential address - part 2. The biology of plume-moths. *British Journal of Entomology and Natural History* **11**: 31-36, plates II-III.

—— (2011) *British plume moths*. British Entomological and Natural History Society, Reading. 278pp.

Hart, G. V. (1888) *Deilephila galii* in Ireland. *Entomologist* **21**: 231-232.

—— (1889) *Panolis piniperda* in Ireland. *Entomologist* **22**: 162.

—— (1890) The Dianthoeciae at Howth. *Entomologist's Rec. J. Var.* **1**: 68.

—— (1890) Capture of *Lithosia caniola*. *Entomologist's Rec. J. Var.* **1**: 154-155.

—— (1890) Captures at sallows in Ireland. *Entomologist* **23**: 262.

—— (1890) Unproductive sugaring. *Entomologist's Rec. J. Var.* **1**: 69.

—— (1890) Howth. *Entomologist's Rec. J. Var.* **1**: 133, 158-159.

Hart, G. V. (1891) Donegal, Wicklow and Howth. *Entomologist's Rec. J. Var.* **1**: 287-288.
—— (1891) *Plutella dalella* etc. in Donegal. *Entomologist's Rec. J. Var.* **2**: 296.
—— (1892) *Vanessa io* at Howth. *Ir. Nat.* **1**: 195.
—— (1892) *Sphinx convolvuli* at Howth. *Entomologist's Rec. J. Var.* **3**: 18-19.
—— (1893) Lepidoptera at Howth and Castlebellingham. *Ir. Nat.* **2**: 322-323.
—— (1893) Lepidoptera of the Londonderry District. *Ir. Nat.* **2**: 175.
—— (1895) Lepidoptera at Howth in 1894. *Ir. Nat.* **4**: 21.
—— (1896) *Gonepteryx rhamni* in Queen's County. *Ir. Nat.* **5**: 87.
—— (1896) An early emergence. *Ir. Nat.* **5**: 87.
—— (1896) *Mixodia palustrana* in Co. Wicklow. *Ir. Nat.* **5**: 318.
—— (1897) Lepidoptera in Cos. Wicklow and Mayo. *Ir. Nat.* **6**: 283.
—— (1897) (On the occurrence of *Tephrosia crepuscularia* (*biundularia*) in Ireland). *Entomologist's Rec. J. Var.* **9**: 322.
—— (1897) (*Gonepteryx rhamni* in Ireland). *Entomologist* **30**: 17.
—— (1897) *Fidonia piniaria* at Glendalough. *Entomologist's mon. Mag.* **33**: 184.
Hart, W. E. (1892) Butterfly appearances. *Ir. Nat.* **1**: 170.
—— (1892) Abundance of *Epinephile hyperanthes* in Co. Donegal. *Ir. Nat.* **1**: 125.
—— (1900) (*Colias edusa* in Ireland). *Ir. Nat.* **9**: 246.
—— (1900) Flowers and insects. *Ir. Nat.* **9**: 212. (Dipt., Lep.)
—— (1900) *Vanessa io* in Co. Londonderry. *Ir. Nat.* **9**: 270.
—— (1901) Peacock Butterfly near Derry. *Ir. Nat.* **10**: 145.
—— (1905) Notes on *Thecla rubi. Ir. Nat.* **14**: 181-182.
—— (1914) The Death's-Head Moth in Ulster. *Ir. Nat.* **23**: 248.
—— (1915) The Death's-Head Moth in Ireland *Ir. Nat.* **24**: 74.
—— (1916) *Hipparchus papilionarius* in Donegal. *Ir. Nat.* **25**: 155.
—— (1917) Habits of *Vanessa io* in Co. Donegal. *Ir. Nat.* **26**: 121.
—— (1918) Abnormal caterpillar of *Choerocampa*. *Ir. Nat.* **27**: 172.
—— (1919) Abnormal caterpillar of *Choerocampa*. *Ir. Nat.* **28**: 44.
Harwood, B. S. (1931) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 70.
Hatch, S. (2008) A selection of moths recorded in Ireland in 2007. *Bulletin of the Amateur Entomologists' Society* **67**: 13-14.
Hättenschwiler, P. (1985) Psychidae. Pp 128-151. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.
Haughton, J. (1856) Remarks on moths which cause destruction in granaries. *Proceedings of the Natural History Society of Dublin* **1**: 22-23.
—— (1856) (*Gonepteryx rhamni*). *Proceedings of the Natural History Society of Dublin* **1**: 29.
—— (1857) (*Hydrelia banksiana*). *Proceedings of the Natural History Society of Dublin* **2**: 127.
Hawker, P. (1962) *Colias croceus* Fourc. and *Pyrameis cardui* L. in Ireland. *Entomologist's Rec. J. Var.* **74**: 222.

Haynes, R. F. (1939) (*Euchloë cardamines*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1939-40**: 3.
—— (1946) Killarney Lepidoptera, Spring 1946. *Ir. Nat. J.* **8**: 436.
—— (1947) (*Apamea heptica and Chloroclysta siterata*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 17.
—— (1947) (*Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 19.
—— (1953) Collecting moths and butterflies in Connemara and N. Mayo, June, 1952. *Ir. Nat. J.* **11**: 33-34.
—— (1954) A new locality for *Aporophyla nigra* Haw (Black Rustic). *Ir. Nat. J.* **11**: 207.
—— (1954) Northern range of *Leptidea sinapis* L. (Wood White). *Ir. Nat. J.* **11**: 234.
—— (1955) *Perizoma taeniata* Steph. The Barred Carpet in Co. Donegal. *Ir. Nat. J.* **11**: 255.
—— (1955) Proposed Lepidoptera list for Killarney. *Ir. Nat. J.* **11**: 264. (request for collectors)
—— (1955) A note on *Sterrha rusticata* Schiff. *Entomologist's Rec. J. Var.* **67**: 131.
—— (1955) Does *Erebia epiphron* Knoch still exist in Ireland? *Entomologist's Rec. J. Var.* **67**: 73-75.
—— (1956) Failure of a mission. *Entomologist's Rec. J. Var.* **68**: 2-4.
—— (1956) Irish localities for *Nyssia zonaria* Schiff. *Entomologist's Rec. J. Var.* **68**: 273.
—— (1956) Testing a theory. *Entomologist's Rec. J. Var.* **68**: 293-295.
—— (1958) 1957: a mediocre year in Ireland. *Entomologist's Rec. J. Var.* **70**: 67-70.
—— (1958) Was the Large Copper ever an Irish insect? *Entomologist's Rec. J. Var.* **70**: 150-151.
—— (1960) Further Irish county records (Lepidoptera). *Ir. Nat. J.* **13**: 143-145.
—— (1960) Proposed Lepidoptera list for Killarney. *Ir. Nat. J.* **13**: 147. (request for collectors)
—— (1962) A note on *Cryphia muralis* Forst. in Ireland. *Entomologist's Rec. J. Var.* **74**: 74.
—— (1962) *Gonepteryx rhamni* L. ssp *gravesi* Huggins (Brimstone) in Co. Fermanagh. *Ir. Nat. J.* **14**: 79-80.
—— (1963) Notes on Lepidoptera in the West of Ireland, 1962. *Ir. Nat. J.* **14**: 174-177.
—— (1977) Lepidoptera from Cos Clare and Kerry. *Ir. Nat. J.* **19**: 51.
—— (1978) *Rhodometra sacraria* (L.) in S.W. Ireland. *Entomologist's Rec. J. Var.* **90**: 336-337.
—— (1978) Rare moth visits Killarney (*Rhodometra sacraria*). *Killarney Advertiser* **6**: 3.
—— (1984) The extraordinary tale of the white prominent: *Leucodonta bicoloria* D. & S. in County Kerry. *Entomologist's Rec. J. Var.* **96**: 1-6.
—— (1986) Report on migrant insects in Ireland for 1985. *Ir. Nat. J.* **22**: 113-114.
—— (1987) Report on migrant insects in Ireland for 1986. *Ir. Nat. J.* **22**: 319-320.
—— (1988) Report on migrant insects in Ireland for 1987. *Ir. Nat. J.* **22**: 499-501.
—— (1989) Report on migrant insects in Ireland for 1988. *Ir. Nat. J.* **23**: 117-119.
—— (1999) Extracts from "A guide to the Lepidoptera of the Killarney District". *Bulletin of the Amateur Entomologists' Society* **58**: 65-76.
Haynes, R. F. and Hillis, J. P. (1981) Report on migrant insects in Ireland for 1980. *Ir. Nat. J.* **20**: 296-299.

Haynes, R. F. and Hillis, J. P. (1982) Report on migrant insects in Ireland for 1981. *Ir. Nat. J.* **20**: 493-495.

—— (1983) A report on migrant insects in Ireland for 1982. *Ir. Nat. J.* **21**: 187.

—— (1984) Report on migrant insects in Ireland for 1983. *Ir. Nat. J.* **21**: 324-325.

—— (1985) Report on migrant insects in Ireland for 1984. *Ir. Nat. J.* **21**: 505-506.

Haynes, R. F. and Lavery, T. A. (1990) Report on migrant insects in Ireland for 1989. *Ir. Nat. J.* **23**: 277-279.

Head, H. W. (1902) Spring Lepidoptera at Scarborough. *Entomologist's Rec. J. Var.* **14**: 110.

—— (1935) Yellow *Pieris napi*. *Entomologist* **68**: 51.

—— (1939) The history of *Pieris napi* var. *citronea*. *Entomologist* **72**: 179-180.

Heal, H. (1964) Butterflies of the Belfast district in 1963. *Ir. Nat. J.* **14**: 232-236.

—— (1965) The Wood-White *Leptidea sinapis* L. and the railways. *Ir. Nat. J.* **15**: 8-13.

—— (1985) First Irish record of a nepticulid moth. *Ir. Nat. J.* **21**: 545.

—— (1986) Drum Manor butterfly garden. *Ir. Nat. J.* **22**: 131-132.

Heal, H. G. (1967) *Mnesipatris filicivora* Meyr. in the Belfast District. *Ir. Nat. J.* **15**: 362.

—— (1970) *Lycaena dispar batavus* L. (Large Copper) in Ireland - an explanation. *Entomologist's Rec. J. Var.* **82**: 31.

Heal, H. G. and Heal, J. C. G. (1970) Egg-laying and conservation of the Silver-Washed Fritillary *Argynnis paphia* Linn. *Ir. Nat. J.* **16**: 318.

Heath, J. (1968) The Lepidoptera distribution maps scheme progress report 1968. *Entomologist's Gazette* **19**: 233-239.

—— (1969) The Lepidoptera distribution maps scheme. *Entomologist* **102**: 12-16.

—— (1970) *Provisional atlas of the insects of the British Isles. Part 1. Lepidoptera Rhopalocera, Butterflies (maps 1 to 57).* Biological Records Centre, Huntingdon.

—— (1971) Insect distribution map scheme progress report 1971. *Entomologist* **104**: 305-310.

—— (1976) Micropterigidae. Pp 151-155. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

—— (1976) Eriocraniidae. Pp 156-165. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

—— (1976) Hepialidae. Pp 166-170. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

Heath, J. and Pelham-Clinton, E. C. (1976) Incurvariidae. Pp 277-300. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

Heath, J. and Skelton, M. J. (eds) (1973) *Provisional atlas of the insects of the British Isles. Part 2: Lepidoptera (Moths - part one). Lasiocampidae: Saturnidae: Endromidae: Drepanidae: Thyatiridae: Sphingidae: Notodontidae: Lymantriidae: Arctiidae: Nolidae.* Biological Records Centre, Huntingdon.

Heckford, R. J. (1988) Discovery in England of the larva of *Pterophorus fuscolimbatus phillipsi* Huggins (Lepidoptera: Pterophoridae). *Entomologist's Gazette* **39**: 189-191.

Heckford, R. J. (1990) *Tebenna micalis* (Mann) a newly recognised British species and a reconsideration of British records of *T. bjerkandrella* (Thunberg) (Lepidoptera: Choreutidae). *Entomologist's Gazette* **41**: 17-20, plates 1-3.

—— (1991) *Pterophorus fuscolimbatus phillipsi* Huggins (Lepidoptera: Pterophoridae) in Cornwall. *Entomologist's Gazette* **42**: 2.

—— (1999) A note on the larva and pupa of *Eublemma ostrina* (Hübner, 1808) (Lepidoptera: Noctuidae). *Entomologist's Gazette* **50**: 251-253.

—— (2001) *Coleophora pappiferella* Hofmann, 1869 (Lepidoptera: Coleophoridae) new to Britain and *Scrobipalpa murinella* (Duponchel, 1843) (Lepidoptera: Gelechiidae) at the same locality. *Entomologist's Gazette* **52**: 101-104.

—— (2010) *Scrobipalpa murinella* (Duponchel, 1843) (Lepidoptera: Gelechiidae) in Northern Ireland, and a note on the larva. *Entomologist's Gazette* **61**: 132.

—— (2010) Notes on the history and biology of *Elachista triseriatella* Stainton, 1854, and *E. cahorsensis* Traugott-Olsen, 1992 (Lepidoptera: Elachistidae) in the British Isles. *Entomologist's Gazette* **61**: 133-142.

—— (2011) A note on the early stages of *Udea uliginosalis* (Stephens, 1834) (Lepidoptera: Pyralidae). *Entomologist's Gazette* **62**: 101-112. (Nephin Beg, West Mayo)

Heckford, R. J. and Beavan, S. D. (2010) A further note on the biology of *Pancalia schwarzella* (Fabricius, 1798) (Lepidoptera: Cosmopterigidae) and a consideration of English records. *Entomologist's Gazette* **61**: 159-170.

—— (2011) *Plutella haasi* Staudinger, 1883 (Lepidoptera: Yponomeutidae): the discovery of the larva at four sites in three vice-counties in Scotland. *Entomologist's Gazette* **62**: 237-250.

—— (2011) *Rhigognostis annulatella* (Curtis, 1832) (Lep.: Yponomeutidae) found inland and on two new larval foodplants, and a consideration of published larval descriptions. *Entomologist's Rec. J. Var.* **123**: 279-282.

Heckford, R. J. and Langmaid, J. R. (1988) *Eulamprotes phaeella* sp. n. (Lepidoptera: Gelechiidae) in the British Isles. *Entomologist's Gazette* **39**: 1-11.

—— (1991) Lepidoptera in Ireland, 1989. *Entomologist's Gazette* **42**: 15-29.

Heckford, R. J., Sattler, K. and York, P. V. (1999) The taxonomic status of *Eulamprotes immaculatella* (Douglas, 1850) (Lepidoptera: Gelechiidae). *Entomologist's Gazette* **50**: 155-160. (Ireland mentioned)

Heckford, R. J. and Sterling, P. H. (1999) Separation of *Helcystogramma rufescens* (Haworth, 1828) and *H. lutatella* (Herrich-Schäffer, 1854) (Lepidoptera: Gelechiidae) on mainly previously unrecorded characters. *Entomologist's Gazette* **50**: 239-250. (Ireland mentioned)

—— (2000) *Eudonia murana* (Curtis, 1827) and *E. truncicolella* (Stainton, 1849) (Lepidoptera: Pyralidae): a guide to separation on female genitalia and a note on distribution. *Entomologist's Gazette* **51**: 13-21. (Ireland mentioned for *E. truncicolella*)

Heckford, R. J. and Wilson, M. R. (1999) 1998 Annual exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **12**: 152-158. (McCormick, R.: species taken or bred from the Burren)

Hellins, J. (1871) Natural history of *Phibalapteryx lapidata*. *Entomologist's mon. Mag.* **8**: 165-166.

Hellins, J. (1886) *Cidaria immanata* variety of the larva. *Entomologist's mon. Mag.* **23**: 87-88.

Hemming, Mrs (1912) (*Melitaea aurinia*). *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 72.

Henwood, B. and Sterling, P. (2020) *Field guide to the caterpillars of Great Britain and Ireland.* Bloomsbury Publishing, London.

Henwood, B. P. (2013) British macromoths. *British Journal of Entomology and Natural History* **26**: 28-29. (*Odontognophos dumetata*, *Calamia tridens*, *Sesleria caerulea*)

—— (2015) British macromoths. *British Journal of Entomology and Natural History* **28**: 81. (Burren: *Photedes captiuncula*, *Aporophyla luenebergensis*)

Henwood, B. P. and Foot, D. (2013) *Calamia tridens occidentalis* Cockayne, 1954, Burren Green (Lep.: Noctuidae) discovery of the larva in the wild and confirmation of its foodplant. *Entomologist's Rec. J. Var.* **125**: 147-149.

Herbert, I. J. (1993) Scarce prominent *Odontosia carmelita* Esper (Lepidoptera: Notodontidae), a species new to Northern Ireland. *Ir. Nat. J.* **24**: 263.

Heron, A. M. R. (1952) Holiday diversion. *Entomologist's Rec. J. Var.* **64**: 13-15.

—— (1952) Butterflies seen on a visit to Ireland in August 1951. *Entomologist's Rec. J. Var.* **64**: 47-48.

—— (1966) *Herse convolvuli* L. in County Clare. *Entomologist's Rec. J. Var.* **78**: 184.

Heslop-Harrison, J. W.* (1948) The Irish and Scottish ranges of *Argynnis paphia* L. (Lep., Nymphalidae). *Entomologist's mon. Mag.* **84**: 43. (*See also under Harrison, J. W. Heslop)

—— (1957) *Thera juniperata* L. in Ireland. *Entomologist* **90**: 69.

—— (1957) The coloration of the larvae of *Biston betularia* L. *Entomologist* **90**: 76-77.

—— (1959) A strange movement of the larvae of the White Ermine, *Spilosoma lubricipeda*. *Entomologist* **92**: 106.

—— (1959) The foodplants of *Apatele euphorbiae* Schf. in Ireland. *Entomologist* **92**: 129.

—— (1959) A melanic larva of *Deilephila elpenor* in Co. Kilkenny. *Entomologist* **92**: 149.

—— (1959) *Laphygma exigua* at Bunclody, Co. Wexford. *Entomologist* **92**: 249.

Hewett, G. (1893) (Lepidoptera). *Entomologist's Rec. J. Var.* **4**: 124.

—— (1893) (Lepidoptera). *Entomologist* **25**: 298.

—— (1894) (Lepidoptera). *Entomologist* **26**: 142.

—— (1897) Are *Tephrosia bistortata* (*crepuscularia*) and *T. crepuscularia* (*biundularia*) distinct species? *Entomologist's Rec. J. Var.* **9**: 142-144, 171-173.

Hickin, N. (1992) *The butterflies of Ireland. A field guide.* Roberts Rinehart, Cork. 222pp.

Higgins, L. (1947) Lepidoptera collected in Oughterard, Co. Galway, in May, 1946. *Ir. Nat. J.* **9**: 99-100.

Higgins, L. G. (1950) A descriptive catalogue of the Palaearctic *Euphydryas* (Lepidoptera: Rhopalocera). *Transactions of the Royal Entomological Society of London* **101**: 435-489.

Higgott, J. B. and Mackie, C. A. (2003) Two new Irish moths. *Entomologist's Rec. J. Var.* **115**: 130. (*Caloptilia azaleella*, *Swammerdamia compunctella*)

Hill, L. (2007) National Moth Night results: 23 September 2006. *Atropos* **31**: 54-64. (seven counties)

Hill, P. (2001) Migrant butterflies in 2000. *Atropos* **12**: 14-15. (clouded yellow)
Hill, P. M. (1997) Migrant butterflies in 1996. *Atropos* **2**: 13-14.
—— (1998) Migrant butterflies in 1997. *Atropos* **4**: 67-68. (Cork: The Monarch)
—— (1998) Insects reported during January-June 1998. *Atropos* **5**: 62-65.
—— (1999) Migrant butterflies in 1998. *Atropos* **6**: 68-69.
Hillis, J. P. (1973) On the reputed occurrence of the Hedge Brown or Gatekeeper Butterfly *Pyronia tithonus* (L.) (Lep., Satyridae) in Co. Monaghan. *Entomologist's Gazette* **24**: 312.
—— (1973) August butterflies in the Carna District, Connemara. *Entomologist's Gazette* **24**: 313-314 .
—— (1976) Report on migrant insects in Ireland for 1975. *Ir. Nat. J.* **18**: 356-359.
—— (1977) Report on migrant insects in Ireland for 1976. *Ir. Nat. J.* **19**: 88-90.
—— (1978) Report on migrant insects in Ireland for 1977. *Ir. Nat. J.* **19**: 243-244.
—— (1979) Report on migrant insects in Ireland for 1978. *Ir. Nat. J.* **19**: 439-440.
Hillis, J. P. and Haynes, R. F. (1980) Report on migrant insects in Ireland for 1979. *Ir. Nat. J.* **20**: 122-124.
Hillis, P. (1974) New locations for the Purple Hairstreak *Quercusia quercus* (L.) and Small Blue *Cupido minimus* Fuessly Butterflies. *Ir. Nat. J.* **18**: 193-194.
—— (1976) Proposed expedition to search for the Small Mountain Ringlet Butterfly *Erebia epiphron* Knoch. *Ir. Nat. J.* **18**: 314.
Hind, N. S. (1893) *Pieris daplidice*, L., in Ireland. *Ir. Nat.* **2**: 322.
Hockin, D. C. (1981) The environmental determinants of the insular butterfly faunas of the British Isles. *Biological Journal of the Linnaean Society* **16**: 63-70.
Hodgkinson, J. B. (1868) Captures of Lepidoptera at Howth. *Entomologist's mon. Mag.* **5**: 78.
—— (1870) *Depressaria pallorella* and *Gracilaria populetorum* at Witherslack. *Entomologist's mon. Mag.* **6**: 285.
—— (1874) *Notodonta bicoloria* in Ireland. *Entomologist's mon. Mag.* **10**: 212.
Hodgson, S. B. (1926) Gynadrous *Polyommatus icarus* in Co. Mayo. *Entomologist* **59**: 245.
—— (1928) *P. cardui* in Co. Mayo. *Entomologist* **61**: 233.
—— (1929) Heterocera in Co. Mayo. *Entomologist* **62**: 283-284.
—— (1932) Gynandrous *Polyommatus icarus* in Co. Galway. *Entomologist* **65**: 243.
—— (1933) Heterocera in Co. Mayo. *Entomologist* **66**: 44.
—— (1933) Rhopalocera of the Mullet Peninsula, Co. Mayo. *Entomologist* **66**: 134-135.
—— (1935) (*Polyommatus icarus*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1935-36**: 48.
—— (1945) *Zygaena lonicerae* pupae eaten by birds. *Entomologist* **78**: 176.
Hoffmeyer, S. (1958) The Transparent Burnet Moth *Zygaena purpuralis* (Brunnich). *Entomologist's Gazette* **9**: 197-200, plate X.
Hogan, A. R. (1854) (Lepidoptera). *The Natural History Review* **1**: 161.
—— (1855) Catalogue of Irish Microlepidoptera. *The Natural History Review* **2**: 109-115.

Hogan, A. R. and Haliday, A. H. (1855) Notes on various insects captured or observed in the neighbourhood of Dingle, Co. Kerry, in July, 1854. *The Natural History Review (Proceedings of Societies)* **2**: 50-55.

Howard, R. (2003) National Moth Night 2002 results. *Atropos* **19**: 46-59. (Cos Antrim, Donegal and Sligo)

Howarth, T. G. (1971) Descriptions of a new British subspecies of *Parage aegeria* (L.) (Lep., Satyridae) and an aberration of *Cupido minimus* (Fuessly) (Lep., Lycaenidae). *Entomologist's Gazette* **22**: 117-118.

—— (1971) The status of Irish *Hipparchia semele* (L.) (Lep., Satyridae) with descriptions of a new subspecies and aberrations. *Entomologist's Gazette* **22**: 123-129, plate 1.

Huemer, P. (1988) A taxonomic revision of *Caryocolum* (Lepidoptera: Gelechiidae). *Bulletin of the British Museum of Natural History* (Entomology) **57**: 439-571.

—— (1993) The British species of *Caryocolum* Gregor and Povolny. *British Journal of Entomology and Natural History* **6**: 145-157.

Huggins, H. C. (1928) Collecting in the Aran Islands. *Entomologist* **61**: 43-44.

—— (1928) The habits of *Bankia argentula*. *Entomologist* **61**: 81.

—— (1939) A few notes on *Platyptilia tesseradactylus*. *Entomologist* **72**: 177-178.

—— (1948) Variation in Irish insects. *Entomologist* **81**: 35-36.

—— (1950) Migrant Lepidoptera in 1949. *Entomologist* **83**: 88-89.

—— (1950) *Orthotaenia rufana*, Scopoli, as an Irish insect. *Entomologist* **83**: 117-118.

—— (1950) *Epirrhoe tristata* in Kerry. *Entomologist* **83**: 211-212.

—— (1950) *Sterrha muricata* Hufnagel in Ireland. *Entomologist* **83**: 234-235.

—— (1950) Aberration of *Anaitis plagiata*. *Entomologist* **83**: 251.

—— (1950) *Celastrina argiolus* in South-West Ireland. *Entomologist* **83**: 265-266.

—— (1951) Migrants in 1950. *Entomologist* **84**: 46-47.

—— (1951) *Thecla betulae* in Ireland. *Entomologist* **84**: 69.

—— (1951) *Tephrosia bistortata* Goeze in Ireland. *Entomologist* **84**: 119-120.

—— (1952) *Eupithecia pulchellata* ab *hebudium* Sheldon at Glengarriff, Co. Cork. *Entomologist* **85**: 196.

—— (1952) *Argynnis aglaja* in West Cork. *Entomologist* **85**: 220-221.

—— (1953) The Lepidoptera of Glengarriff, Co. Cork. *Entomologist* **86**: 12-17, 242-254.

—— (1953) Notes on Microlepidoptera. *Entomologist's Rec. J. Var.* **65**: 137-138.

—— (1953) Notes on Microlepidoptera. *Entomologist's Rec. J. Var.* **65**: 176-178.

—— (1953) Notes on Microlepidoptera. *Entomologist's Rec. J. Var.* **65**: 320-321.

—— (1954) The Burren in 1953. *Entomologist's Rec. J. Var.* **66**: 104-107.

—— (1954) *Eupithecia pulchellata* Stephens in West Cork. *Entomologist* **87**: 147-148.

—— (1954) Late emergence of insects in 1954. *Entomologist* **87**: 173-174.

—— (1955) The Irish sub-species of *Alucita icterodactyla* Mann (Lep: Pterophoridae). *Entomologist's Gazette* **6**: 124-126.

—— (1955) *Dioryctria splendidella* H.-S. in South-East Essex. *Entomologist* **88**: 211.

—— (1955) Dr. Ford and Irish Lepidoptera. *Entomologist* **88**: 193-198.

—— (1955) The Burren in July, 1954. *Entomologist* **88**: 243-247.

—— (1956) New abberrations of British Lepidoptera. *Entomologist* **89**: 1-2, plate 1.

—— (1956) The Irish Race of *Gonopteryx rhamni* (Lep., Pieridae). *Entomologist* **89**: 65-66.

Huggins, H. C. (1956) The Irish subspecies of *Gonepteryx rhamni*. *Entomologist* **89**: 130-131.
—— (1956) The Burren subspecies of *Erynnis tages* Linn. *Entomologist* **89**: 241-242.
—— (1956) A naturalist in the Burren. *Proceedings of the South London Entomological and Natural History Society* **1956**: 176-183.
—— (1957) Immigrants in 1956. *Entomologist* **90**: 50-51.
—— (1957) Lepidoptera of the Burren in May and June 1956. *Entomologist* **90**: 139-142.
—— (1957) *Biston betularia* f *carbonaria* in Ireland. *Entomologist* **90**: 188.
—— (1957) Notes on Microlepidoptera. *Entomologist's Rec. J. Var.* **69**: 244-245.
—— (1958) *Leucania unipunctata* Haw. as a resident species. *Entomologist's Rec. J. Var.* **70**: 29.
—— (1958) Notes on Microlepidoptera. *Entomologist's Rec. J. Var.* **70**: 53-55.
—— (1958) Notes on Microlepidoptera. *Entomologist's Rec. J. Var.* **70**: 162-163.
—— (1958) The supposed Irish record of *Lycaena dispar* Haw. *Entomologist's Rec. J. Var.* **70**: 182-183.
—— (1960) A naturalist in the Kingdom of Kerry. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1959**: 176-183.
—— (1961) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **73**: 10-11.
—— (1961) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **73**: 181.
—— (1961) The present status of *Euphyia bilineata* L. ab. *isolata* Kane. *Entomologist's Rec. J. Var.* **73**: 203-206.
—— (1961) The Dingle Peninsula in July 1961. *Entomologist's Rec. J. Var.* **73**: 247-249.
—— (1961) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **73**: 257-258.
—— (1962) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **74**: 39.
—— (1962) Notes on the Microlepidoptera. The Irish status of *Platyptilia calodactyla* Schiff. (*zetterstedtii* Zell.). *Entomologist's Rec. J. Var.* **74**: 202.
—— (1962) Notes on the Microlepidoptera. Confirmation of the Irish status of *Homoeosoma nebulella* Schiff. *Entomologist's Rec. J. Var.* **74**: 218-219.
—— (1962) Notes on Microlepidoptera. Old Irish micro records. *Entomologist's Rec. J. Var.* **74**: 240-241.
—— (1962) Notes on variation in *Cryphia muralis* Forster (Lep., Noctuidae). *Entomologist's Gazette* **13**: 94-96.
—— (1962) *Cryphia muralis* Forst. in Kerry. *Entomologist's Rec. J. Var.* **74**: 119-120.
—— (1962) A new subspecies of *Eupithecia venosata* Fabr. *Entomologist's Rec. J. Var.* **74**: 171-172.
—— (1962) A new subspecies of *Eupithecia vulgata* Haworth (Lepidoptera, Hydriomenidae). *Entomologist* **95**: 45-46.
—— (1962) Dingle in 1962. *Entomologist's Rec. J. Var.* **74**: 249-252.
—— (1962) The habits of *Bomolocha fontis* Thunb. *Entomologist's Rec. J. Var.* **74**: 278-279.
—— (1963) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **75**: 138-139.
—— (1963) Notes on the Microlepidoptera. Irish Plumes. *Entomologist's Rec. J. Var.* **75**: 219.
—— (1964) *Pyrausta funebris* Strom, 1768 (Lep., Pyralidae). *Entomologist's Gazette* **15**: 95-96.

Huggins, H. C. (1964) Dingle 1963. *Entomologist's Rec. J. Var.* **76**: 18-20.
—— (1964) Melanism in Lepidoptera in the West of Ireland. *Entomologist's Rec. J. Var.* **76**: 155-158.
—— (1964) Notes on the Microlepidoptera. *Cnephasia conspersana* Dougl. *Entomologist's Rec. J. Var.* **76**: 159.
—— (1964) Ireland 1964. *Entomologist's Rec. J. Var.* **76**: 223-227.
—— (1964) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **76**: 230-231.
—— (1965) Ireland in 1964, a postscript. *Entomologist's Rec. J. Var.* **77**: 13-14.
—— (1965) Notes on the Microlepidoptera. (*Tortrix unitana* Hubn.). *Entomologist's Rec. J. Var.* **77**: 15.
—— (1966) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **78**: 166-167.
—— (1966) The second broods of Irish Hadenidae. *Entomologist's Rec. J. Var.* **78**: 183.
—— (1966) Notes on the Microlepidoptera. *Crocidosema plebeiana* Zell., a tortrix new to Ireland. *Entomologist's Rec. J. Var.* **78**: 256.
—— (1966) Dingle 1966. *Entomologist's Rec. J. Var.* **78**: 294-297.
—— (1967) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **79**: 14.
—— (1967) A note on the *Hydraecias* in the West of Ireland. *Entomologist's Rec. J. Var.* **79**: 99-100.
—— (1967) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **79**: 100-101.
—— (1967) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **79**: 256.
—— (1967) The Dingle Peninsula, 1967. *Entomologist's Rec. J. Var.* **79**: 280-284.
—— (1968) A new aberration of *Eupithecia venosata* Fabr. (Fabr.). *Entomologist's Rec. J. Var.* **80**: 157.
—— (1968) "Innisfallen" fare thee well! *Entomologist's Rec. J. Var.* **80**: 315-318.
—— (1969) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **81**: 104.
—— (1969) Ireland 1969. *Entomologist's Rec. J. Var.* **81**: 319-321.
—— (1970) Notes on the Microlepidoptera. *Entomologist's Rec. J. Var.* **82**: 17-18.
—— (1970) *Lasiocampa quercus* (L.) subspecies *callunae* Palmer (Lep., Lasiocampidae). *Entomologist's Gazette* **21**: 239-240.
—— (1970) Ireland, 1969, a postscript. *Entomologist's Rec. J. Var.* **82**: 193-194.
—— (1970) "Another last day". *Entomologist's Rec. J. Var.* **82**: 314-316.
—— (1971) *Hydraecias* in the coastal areas of Western Ireland. *Entomologist's Rec. J. Var.* **83**: 37-38 .
—— (1971) Dingle, 1971. *Entomologist's Rec. J. Var.* **83**: 343-346.
—— (1972) Notes on the Microlepidoptera. The Burren Plumes. *Entomologist's Rec. J. Var.* **84**: 163-164.
—— (1973) Ireland, 1972. *Entomologist's Rec. J. Var.* **85**: 65-67.
—— (1973) "They were Irish gannets". *Entomologist's Rec. J. Var.* **85**: 234-237.
—— (1975) The black larva of *Abraxas grossulariata* L. *Entomologist's Rec. J. Var.* **87**: 268.
—— (1975) A few notes on Clearwings. *Entomologist's Rec. J. Var.* **87**: 275-276.
—— (1976) The second brood of *Apatele euphorbiae* s. sp. *myricae* Gn. in the West of Ireland. *Entomologist's Rec. J. Var.* **88**: 82.
—— (1976) Apropos of Dr. Young's letter. *Entomologist's Rec. J. Var.* **88**: 119-120.

Hughes, M. (2004) Netted pug *Eupithecia venosata* in Northern Ireland. *Atropos* **22**: 58-60. (netted pug and other moths from Copeland Island, Co. Down)

Hughes, M., Nelson, B. and Bond, K. (2008) Two wood whites in Ireland - how and when did they arrive? P. 135. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Hume, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Humphreys, H. N. and Westwood, J. O. (1842) *Coenomorpha*, *Davus*, *Typhon* and *Polydama* in Donegal. *Entomologist* **1**: 265-272.

—— (1843) *British moths and their transformations*. Volume 1. W. Smith, London.

—— (1845) *British moths and their transformations*. Volume 2. W. Smith, London.

Hunter, J. (2020) *Hypercallia citrinalis* (Scopoli, 1763) hiding in plain sight? *Atropos* **65**: 6-8.

Hutchinson, E. S. (1887) *Arctia mendica*. *Entomologist's mon. Mag.* **23**: 187.

Hutchinson, G. E. (1974) New and inadequately described aberrations of *Abraxas grossulariata* (Linn.) (Lep: Geometridae). *Entomologist's Rec. J. Var.* **86**: 199-206, plates XVII - XVIII.

InvertebrateIreland Online (2006) Irish Lepidoptera (Moths & Butterflies). National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=11>

Irwin, A. (1969) *Nymphalis antiopa* L. (Camberwell Beauty) in Northern Ireland. *Entomologist's Rec. J. Var.* **81**: 293.

—— (1970) *Lycaena* ? *batavus* L. (Large Copper) in Ireland. *Entomologist's Rec. J. Var.* **82**: 215.

Jackson, F. W. J. (1901) *Oenistis quadra* in Ireland. *Entomologist* **34**: 317.

—— (1903) *Sphinx convolvuli* in Ireland. *Entomologist* **36**: 292.

Jackson, G. (1893) (*Zygaena minos*). *Entomologist* **26**: 142.

Jackson, R. A. (1947) (*Plusia orichalcea*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 58.

—— (1947) The protection of British Lepidoptera. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1947-48**: 58-67.

Jacobs, S. N. A. (1938) (*Mnesipatris filicivora*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1937-38**: 29.

—— (1938) (*Mnesipatris filicivora*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1938-39**: 4.

—— (1944) The British species of the Genus *Lithocolletis*, Hb. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1944-45**: 32-59.

Jameson, H. L. (1893) *Macroglossa stellatarum* in Co. Sligo. *Ir. Nat.* **2**: 323.

—— (1893) *Sirex gigas* and *Macroglossa stellatarum* in Co. Louth. *Ir. Nat.* **2**: 229.

Janson, O. E. and Wyse, L. H. Bonaparte (1923) A forthnight's entomology in Co. Waterford. *Ir. Nat.* **32**: 9-17.

Jeffares, M. (1970) *Lygris mellinata* Fab. (Lepidoptera: Geometridae) in Ireland. *Entomologist's Rec. J. Var.* **82**: 299-300.

—— (1974) *Quercusia quercus* (Linnaeus) (Lep; Lycaenidae) in Co. Cork. *Entomologist's Gazette* **25**: 91.

—— (1974) On the reported occurrence of *Maculinea arion* L. in South West Ireland. *Entomologist's Rec. J. Var.* **86**: 118.

—— (1982) *Perconia strigillaria* (Hübner) in Co. Kildare, Ireland. *Entomologist's Gazette* **33**: 50.

—— (2002) *Euproctis similis* (Fuessly, 1775) (Lepidoptera: Lymantriidae) in Co. Kildare, Ireland. *Entomologist's Gazette* **53**: 56.

—— (2002) *Eilema griseola* (Hübner, [1803]) f. *stramineola* (Doubleday, 1847) (Lepidoptera: Arctiidae) new to Ireland. *Entomologist's Gazette* **53**: 56.

—— (2002) Lepidoptera species new to Co. Kildare, Ireland. *Entomologist's Gazette* **53**: 238.

—— (2003) An allergy to lepidopterous wing scales. *Entomologist's Gazette* **54**: 30.

—— (2003) *Heliothis peltigera* ([Denis and Schiffermüller], 1775) (Lepidoptera: Noctuidae) in Co. Wicklow, Ireland. *Entomologist's Gazette* **54**: 222.

—— (2004) *Protodeltote pygarga* (Hufnagel, 1766) (Lepidoptera: Noctuidae) new to Cos Clare and Kildare, Ireland. *Entomologist's Gazette* **55**: 226.

Jenkins, A. (1999) *Philereme vetulata* (D. and S.) (Lep.: Geometridae) new to Co. Clare. *Entomologist's Rec. J. Var.* **111**: 9.

—— (2012) British macromoths. *British Journal of Entomology and Natural History* **25**: 157. (Kerry: *Leucodonta bicoloria*, *Spilosoma luteum*)

Johnson, A. C. (2001) Lepidoptera in 1997 in Kilcolman National Nature Reserve, Co. Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 105-134. (including *Ypsolopha mucronella* and *Euchromius ocellea*)

Johnson, A. C. and Bond, K. G. M. (1999) *Ypsolopha mucronella* (Scopoli, 1763) (Lepidoptera: Yponomeutidae) in Co Cork, new to Ireland. *Ir. Nat. J.* **26** (1998): 128.

Johnson, C. F. (1912) (*Dianthoecia capsophila*). *Entomologist* **45**: 46.

Johnson, J. H. (1898) Early *Pararge megaera* in Co. Tipperary. *Ir. Nat.* **7**: 149.

—— (1953) An attempt to rear the larva of *Heliophobus anceps* Schiff. (*saponariae* Bork., *reticulata* Vill.). *Entomologist's Rec. J. Var.* **65**: 326-327.

Johnson, W. F. (1885) *Acherontia atropos* at Caledon, Co. Tyrone. *Entomologist's mon. Mag.* **22**: 161.

—— (1887) *Sphinx convolvuli* at Armagh. *Entomologist's mon. Mag.* **24**: 132.

—— (1888) Lepidoptera at Armagh in 1887. *Entomologist's mon. Mag.* **24**: 211-212.

—— (1889) Lepidoptera at Armagh in 1888. *Entomologist's mon. Mag.* **25**: 259.

—— (1890) Lepidoptera at Armagh in 1889. *Entomologist's mon. Mag.* **26**: 140-141.

—— (1890) *Eupithecia dodoneata* at Armagh. *Entomologist's mon. Mag.* **26**: 214.

—— (1890) Armagh. *Entomologist's Rec. J. Var.* **1**: 156.

—— (1890) *Peronea perplexana*, Barr. at Armagh. *Entomologist's Rec. J. Var.* **1**: 211-212.

—— (1890) Time of appearance of *Plusia festucae*. *Entomologist's Rec. J. Var.* **1**: 184.

—— (1890) Time of appearance of *Miana strigilis* and *M. fasciuncula*. *Entomologist's Rec. J. Var.* **1**: 346-347.

Johnson, W. F. (1890) (Distribution of *Cidaria suffumata* var. *piceata*). *Entomologist's Rec. J. Var.* **1**: 240.
—— (1891) Armagh. *Entomologist's Rec. J. Var.* **2**: 87, 182.
—— (1891) Coleoptera and Lepidoptera at Bundoran, Ireland. *Entomologist's mon. Mag.* **27**: 75-77.
—— (1892) Lepidoptera at Armagh. *Entomologist's mon. Mag.* **28**: 217.
—— (1892) *Vanessa cardui* at Armagh. *Ir. Nat.* **1**: 125-126.
—— (1893) Lepidoptera at Armagh. *Ir. Nat.* **2**: 24-25.
—— (1893) Lepidoptera at Ardara, Co. Donegal. *Ir. Nat.* **2**: 147-148.
—— (1893) Early Spring butterflies. *Ir. Nat.* **2**: 176.
—— (1893) (*Sphinx convolvuli*). *Ir. Nat.* **2**: 116.
—— (1893) (Lepidoptera). *Ir. Nat.* **2**: 320.
—— (1893) Additional localities for Irish Lepidoptera. *Entomologist* **26**: 318.
—— (1893) Variation of *Xylophasia polyodon*, &c. in Donegal. *Entomologist's mon. Mag.* **29**: 236.
—— (1894) *Pararge megaera* in October. *Entomologist's mon. Mag.* **30**: 10.
—— (1894) Lepidoptera at Armagh in 1893. *Entomologist's mon. Mag.* **30**: 38.
—— (1894) *Calocampa vetusta* in January. *Entomologist's mon. Mag.* **30**: 62.
—— (1894) *Hepialus lupulinus* at Armagh. *Ir. Nat.* **3**: 242-243.
—— (1895) Spring Lepidoptera at Armagh. *Ir. Nat.* **4**: 223-224.
—— (1896) *Acherontia atropos* at Bessbrook. *Ir. Nat.* **5**: 191.
—— (1897) Lepidoptera at Poyntspass, Armagh, in 1897. *Entomologist's mon. Mag.* **33**: 233-234.
—— (1899) *Macroglossa stellatarum*, and *M. bombyliformis* at Poyntzpass. *Ir. Nat.* **8**: 185.
—— (1899) (Irish Butterflies). *Proceedings of the Belfast Naturalists' Field Club* **4**: 489-491.
—— (1901) *Vanessa c-album* in Ireland. *Ir. Nat.* **10**: 23.
—— (1901) *Vanessa io* in Ulster. *Ir. Nat.* **10**: 23.
—— (1901) *Vanessa c-album* in Ireland. *Entomologist* **34**: 18-19.
—— (1901) *Cerastis ligula*, Esp., at Poyntzpass, Ireland. *Entomologist's mon. Mag.* **37**: 45.
—— (1901) *Vanessa io*, L., in Ireland. *Entomologist's mon. Mag.* **37**: 257.
—— (1901) *Phibalocera quercana* attacking Rhododendrons. *Entomologist's mon. Mag.* **37**: 277.
—— (1902) Late appearance of *Vanessa io*. *Ir. Nat.* **11**: 150.
—— (1902) Early appearance of *Vanessa io*. *Ir. Nat.* **11**: 173.
—— (1902) Autumn Lepidoptera at Poyntzpass. *Ir. Nat.* **11**: 185.
—— (1902) Lepidoptera. Pp 198-204. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.
—— (1903) *Ochsenheimeria birdella* in a hayloft. *Entomologist's mon. Mag.* **39**: 301-302.
—— (1903) Dark variety of *Hydroecia micacea* at Poyntzpass. *Entomologist's mon. Mag.* **39**: 302.
—— (1904) Lepidoptera at Wexford. *Ir. Nat.* **13**: 75.
—— (1907) Lepidoptera in the North of Ireland during 1906. *Ir. Nat.* **16**: 161.

Johnson, W. F. (1909) A late Butterfly. *Ir. Nat.* **18**: 55.
—— (1911) Local name for the Ghost Moth. *Ir. Nat.* **20**: 164.
—— (1911) A variety of the Magpie Moth. *Ir. Nat.* **20**: 185.
—— (1912) An early butterfly. *Ir. Nat.* **21**: 103.
—— (1913) *Clostera reclusa* at Coolmore, Co. Donegal. *Ir. Nat.* **22**: 162.
—— (1914) Notes on some Irish Lepidoptera. *Ir. Nat.* **23**: 225-226.
—— (1915) The Death's-Head Moth in Ireland. *Ir. Nat.* **24**: 14.
—— (1915) *Pyrameis cardui* in Co. Donegal. *Entomologist's mon. Mag.* **51**: 19.
—— (1915) Notes on Lepidoptera. *Ir. Nat.* **24**: 173, 216.
—— (1916) *Triphaena ianthina* feeding on ivy. *Ir. Nat.* **25**: 155.
—— (1917) Larva of the Death's Head Moth in Co. Down. *Ir. Nat.* **26**: 194.
—— (1918) The Convolvulus Hawk-Moth in the counties of Antrim and Down. *Ir. Nat.* **27**: 12.
—— (1920) Scarcity of the Small Tortoiseshell Butterfly. *Ir. Nat.* **29**: 77.
—— (1920) A late *Zygaena*. *Ir. Nat.* **29**: 120.
—— (1920) *Argynnis aglaia* at Pontzpass. *Ir. Nat.* **29**: 121.
—— (1921) Irish Ichneumonidae and Braconidae in 1920. *Ir. Nat.* **30**: 104-107. (Hym., Lep.)
—— (1921) Notes on Lepidoptera in 1920. *Ir. Nat.* **30**: 11-13.
—— (1921) The distribution of *Argynnis aglaia* in Ireland. *Ir. Nat.* **30**: 44-46.
—— (1921) Abundance of Red Admiral Butterflies. *Ir. Nat.* **30**: 146.
—— (1922) Humming-Bird Hawk-Moth in December. *Ir. Nat.* **31**: 54.
—— (1924) Lepidoptera at Rostrevor, Co. Down. *Entomologist's mon. Mag.* **60**: 139.
—— (1925) *Tortrix viridana* at Rostrevor. *Entomologist* **58**: 252.
—— (1927) Lepidoptera in Co. Down, Ireland, in 1926. *Entomologist* **60**: 114-115.
—— (1927) *Sphinx convolvuli* in Northern Ireland. *Entomologist* **60**: 280.
—— (1929) *Sphinx convolvuli* at Rostrevor. *Entomologist* **62**: 225.
—— (1930) *Macroglossa stellatarum* hibernating. *Entomologist* **63**: 113.
—— (1930) *Pachys betularia* var. *doubledayaria* at Rostrevor. *Entomologist* **63**: 147.
—— (1931) Notes on Irish Lepidoptera 1923-1929. *Entomologist* **64**: 53-59, 76.
—— (1932) Lepidoptera at Rostrevor in 1930. *Entomologist* **65**: 184-185.
Johnston, J. H. (1904) Large Lepidoptera at Wexford. *Ir. Nat.* **13**: 44.
—— (1905) Death's head moth near Wexford. *Ir. Nat.* **14**: 93.
Johnston, W. H. (1899) (*Colias edusa*). *Ir. Nat.* **8**: 140.
Johnston, W. H. and Wolfe, J. J. (1898) (*Colias edusa*). *Ir. Nat.* **7**: 146.
Jones, A. M. (1998) 1997 annual exhibition. British butterflies. *British Journal of Entomology and Natural History* **11**: 81-84. (Tremewan, W. G.: male and female examples of *Polyommatus icarus* Rott. ssp. *mariscolore* Kane from the Burren, Co. Clare)
—— (2000) 1999 Annual exhibition. *British Journal of Entomology and Natural History* **13**: 146-149. (British butterflies. McCormick, R.: specimens taken in Co. Clare)
—— (2004) 2003 Annual Exhibition. British butterflies. *British Journal of Entomology and Natural History* **17**: 147-150. (Tebutt, P.: *Pieris icarus* ab. *obsoleta*; D. Wedd: *Argynnis aglaja*)

Jones, A. M. *et al.* (1997) 1996 Annual exhibition. *British Journal of Entomology and Natural History* **10**: 145-183. (Lepidoptera: Pickles, A. J. and C. T.: *Argynnis aglaja*, *Erynnis tages*; Porter, J.: *Anthocharis cardamines hibernica*; Clarke, J.: various moths from the Burren, Co. Clare; Cook, R. R.: ditto; Pickles, A. J. and C. T.: ditto; Wedd, D.: various species from Cos Clare and Galway; Emmet, A. M.: *Phyllonorycter geniculella* and *Coleophora milvipennis* new to Ireland; O'Keeffe, D.: *Caryocolum alsinella* possible new subspecies; Pickles, A. J. and C. T.: *Anania funebris* from the Burren)

Jones, B. (2015) *Epermenia aequidentellus* (Hofmann) (Lep.: Epermeniidae) - new for Norfolk. *Entomologist's Rec. J. Var.* **127**: 26-29.

Jones, H. B. (1892) Ireland. *Entomologist's Rec. J. Var.* **3**: 262.

—— (1893) Howth. *Entomologist's Rec. J. Var.* **4**: 183.

Jordon, R. C. R. (1866) Notes on the catalogue of Irish Lepidoptera. *Entomologist's mon. Mag.* **3**: 109-110.

Kaila, L. (2019) An annotated catalogue of Elachistinae of the World (Lepidoptera: Gelechioidea: Elachistidae). *Zootaxa* **4632**.

Kane, A. (1942) The 1941 Clouded Yellow immigration. *Ir. Nat. J.* **8**: 9-10.

Kane, W. F. de V. (1882) Lepidoptera at ivy in Ireland. *Entomologist* **15**: 69.

—— (1882) *Choerocampa elpenor* larva feeding on Enchanter's Nightshade. *Entomologist* **15**: 234.

—— (1883) Remarks upon causes of scarcity of Lepidoptera. *Entomologist* **16**: 52-55.

—— (1884) Report on Irish Lepidoptera. *Proceedings of the Royal Irish Academy* **14**: 105-115.

—— (1884) Abundance of *V. cardui* and other Lepidoptera in Ireland. *Entomologist's mon. Mag.* **21**: 134-135.

—— (1884) *Epunda lutulenta* and its varieties. *Entomologist* **17**: 14-15.

—— (1884) Influence of meteorological conditions upon Lepidoptera. *Entomologist* **17**: 25-28.

—— (1886) The Season of 1885 in Ireland. *Entomologist* **19**: 1-5.

—— (1886) *Deiopeia pulchella*. *Entomologist* **19**: 205-207.

—— (1886) The *Tephrosia* discussion. *Entomologist* **19**: 209-211.

—— (1886) *Lobophora viretata*. *Entomologist* **19**: 211.

—— (1891) Kingstown, Ireland. *Entomologist's Rec. J. Var.* **2**: 38.

—— (1891) Early Spring notes - Kingstown. *Entomologist's Rec. J. Var.* **2**: 61.

—— (1891) Notes on collecting, etc. Wicklow and Exmouth. *Entomologist's Rec. J. Var.* **2**: 62.

—— (1891) Tullamore. *Entomologist's Rec. J. Var.* **2**: 112.

—— (1891) (*Coenonympha davus* vars). *Entomologist's Rec. J. Var.* **2**: 108.

—— (1891) Kingstown. *Entomologist's Rec. J. Var.* **2**: 180-181.

—— (1891) Kingstown, Ireland. *Entomologist's Rec. J. Var.* **2**: 231.

—— (1891) *Dianthaecia capsophila* and *D. carpophaga. Entomologist's Rec. J. Var.* **2**: 273.

—— (1891) The generic position of *Dianthaecia barretti*. *Entomologist's Rec. J. Var.* **2**: 275-276.

—— (1891) Howth, etc. *Entomologist's Rec. J. Var.* **2**: 289.

—— (1892) *Cerastis spadicea* and *C. vaccinii*. *Entomologist's Rec. J. Var.* **3**: 7-8.

Kane, W. F. de V. (1892) *Dianthoecia carpophaga* and *D. capsophila. Entomologist's Rec. J. Var.* **3**: 8.
—— (1892) (*Sphinx convolvuli*). *Entomologist's Rec. J. Var.* **3**: 267.
—— (1892) Ireland. *Entomologist's Rec. J. Var.* **3**: 236-237, 289-290.
—— (1893) A proposed revised list of Irish Lepidoptera. *Entomologist's mon. Mag.* **29**: 16.
—— (1893) Failure of sugar. *Entomologist's Rec. J. Var.* **4**: 204.
—— (1893) Tyrone. *Entomologist's Rec. J. Var.* **4**: 176.
—— (1893) Small race of *Zygaena filipendulae*. *Entomologist's Rec. J. Var.* **4**: 200.
—— (1893) Ireland. *Entomologist's Rec. J. Var.* **4**: 205, 257.
—— (1893) Tyrone. *Entomologist's Rec. J. Var.* **4**: 176.
—— (1893) Irish Entomology. *Ir. Nat.* **2**: 32-34.
—— (1893) The "Melanism" Controversy. *Entomologist* **26**: 307-311.
—— (1894) Catalogue of Irish Lepidoptera. *Entomologist* **27**: 16-17.
—— (1894) (Notes on Collecting, etc.). *Entomologist's Rec. J. Var.* **5**: 154.
—— (1895) Irish Moths. *Ir. Nat.* **4**: 19-20.
—— (1895) *Thecla betulae* in Co. Wexford. *Ir. Nat.* **4**: 21.
—— (1895) Irish Field Club Union. Report of the Conference and Excursion held at Galway, July 11th to 17th, 1895. Lepidoptera. *Ir. Nat.* **4**: 263-264.
—— (1895) Notes from the exchange baskets. *Entomologist's Rec. J. Var.* **6**: 210.
—— (1895) Short notes from the exchange baskets. *Entomologist's Rec. J. Var.* **6**: 16.
—— (1895) (Notes on collecting, etc.). *Entomologist's Rec. J. Var.* **6**: 92.
—— (1896) On the variation of *Melitaea aurinia*, Rott. *Entomologist's Rec. J. Var.* **7**: 230-231.
—— (1896) Observations on the development of melanism in *Captogramma bilineata*. *Ir. Nat.* **5**: 74-80.
—— (1897) Further observations on the development of melanism in moths. *Ir. Nat.* **6**: 44.
—— (1897) *Leucania unipuncta*, Haw. in Co. Cork. *Ir. Nat.* **6**: 104.
—— (1897) *Asteroscopus sphinx* numerous in Co. Galway. *Entomologist's Rec. J. Var.* **9**: 63.
—— (1897) *Tephrosia crepuscularia* (*biundularia*) in Ireland. *Entomologist's Rec. J. Var.* **9**: 64.
—— (1897) *Gonepteryx rhamni* in Ireland. *Entomologist* **30**: 16-17.
—— (1897) *Leucania extranea*, Gn., in the County of Cork. *Entomologist* **30**: 80-81.
—— (1897) (On the occurrence of *Tephrosia crepuscularia* (*biundularia*) in Ireland). *Entomologist's Rec. J. Var.* **9**: 323-324.
—— (1898) (*Platyptilia tesseradactyla*). *Entomologist's Rec. J. Var.* **10**: 227.
—— (1898) Spring appearance of *Asteroscopus sphinx*. *Entomologist* **31**: 138.
—— (1898) *Sphinx convolvulii* in Ireland. *Ir. Nat.* **7**: 271.
—— (1898) Impressions of Achill by members of an Easter party. Lepidoptera. *Ir. Nat.* **7**: 135-136.
—— (1899) Notes of recent captures. *Ir. Nat.* **8**: 52.
—— (1899) Noteworthy Lepidoptera. *Ir. Nat.* **8**: 207.
—— (1900) Mr Donovan's captures in Co. Cork. *Entomologist* **33**: 197-198.
—— (1900) Noteworthy Irish Lepidoptera. *Ir. Nat.* **9**: 271.

Kane, W. F. de V. (1901) Destruction of Cherry Trees by *Semasia woeberiana*. *Ir. Nat.* **10**: 146.

—— (1893-1901) A catalogue of the Lepidoptera of Ireland. With supplement. *Entomologist* **26-33**.

—— (1901) *A catalogue of the Lepidoptera of Ireland*. West, Newman & Co., London. xviii, viii, 166pp, 1 colour plate.

—— (1902) Recent progress in Irish natural history. *Ir. Nat.* **11**: 53-60.

—— (1902) *Bryophila muralis* in County Cork. *Ir. Nat.* **11**: 250.

—— (1903) *Nisoniades tages* in Co. Mayo. *Ir. Nat.* **12**: 275.

—— (1903) Lepidoptera taken near Limerick. *Ir. Nat.* **12**: 318.

—— (1907) Contributions to the Natural History of Lambay. Lepidoptera. *Ir. Nat.* **16**: 44-46.

—— (1907) Miscellaneous captures of Lepidoptera in Ireland. *Ir. Nat.* **16**: 351-352.

—— (1908) Lepidoptera. Pp 160-165. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1912) Clare Island Survey. 26. Lepidoptera. *Proceedings of the Royal Irish Academy* **31**(26): 10pp.

—— (1914) *Catoptria aspidiscana* Hb., at Ardrahan, Co. Galway. *Ir. Nat.* **23**: 50.

Kappel, A. W., Kirby, W. E., Deuchert, H. and Slocombe, S. (1895) *British and European butterflies and moths (Macrolepidoptera).* E. Nister, London.

Karsholt, O., Aarvik, L., Agassiz, D., Huemer, P. and Tuck, K. (2005) *Acleris effractana* (Hübner, 1799) - a Holarctic tortricid. *Nota lepidopterologica* **28**: 93-102.

Karsholt, O. and Nielsen, E. S. (1984) A taxonomic review of the stem moths, *Ochsenheimeria* Hübner, of northern Europe (Lepidoptera: Ochsenheimeriidae). *Entomological Scandinavica* **15**: 233-247. (*O. mediopectinellus* (Haworth))

Kaye, W. J. (1902) Collecting in Co. Kerry In June 1902. *Entomologist's Rec. J. Var.* **14**: 350-352.

—— (1903) Three weeks in South Kerry. Lepidoptera. *Ir. Nat.* **12**: 66-67.

—— (1912) (*Coenonympha tullia*). *Proceedings of the South London Entomological and Natural History Society* **1912-13**: 80.

—— (1918) (*Spilosoma lubricipeda*). *Proceedings of the South London Entomological and Natural History Society* **1918-19**: 55.

Keane, T. W. L. (1918) Abundance of Lepidoptera in 1917. *Ir. Nat.* **27**: 52.

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2002) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 119-124.

Kemp, R. (2000) Saturday 3nd October 1999 - The Annual Exhibition: a report. *Bulletin of the Amateur Entomologists' Society* **59**: 134. (*Zygaena purpuralis sabulosa*)

Kemp, S. (1933) *Danaus plexippus* in Co. Kerry. *Entomologist* **66**: 241.

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

Kenrick, G. H. (1907) (*Spilosoma mendica*). *Entomologist's mon. Mag.* **43**: 185. & *Entomologist* **40**: 216.

Kershaw, S. H. (1958) A superfluous varietal name. *Entomologist's Rec. J. Var.* **70**: 31.

Kettlewell, H. B. D. (1947) *Angeronia prunaria* L.: its variation and genetics. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 123-139.

—— (1949) *Vanessa atalanta* in January. *Entomologist* **82**: 92.

—— (1953) A note on *Odontosia carmelita* Esper. *Entomologist's Rec. J. Var.* **65**: 87.

—— (1954) *Hydraecia hucherardi* Mabille (Lep., Agrotidae) breeding in Britain. *Entomologist* **87**: 249-257.

—— (1957) Problems in industrial melanism. *Entomologist* **90**: 98-105.

—— (1965) A 12-year survey of the frequencies of *Biston betularia* (L.) (Lep.) and its melanic forms in Great Britain. *Entomologist's Rec. J. Var.* **77**: 195-218.

Kinahan, J. R. (1857) (*Colias edusa*). *Proceedings of the Natural History Society of Dublin* **2**: 18-19.

King, J. J. F. X. (1893) *Oxyptilus parvidactylus*, Haw., in Ireland. *Entomologist's mon. Mag.* **29**: 140.

—— (1895) *Dichelia grotiana*, F., near Athlone. *Entomologist's mon. Mag.* **31**: 120.

Kirby, W. F. (1859) The geographical distribution of Sphingina in Great Britain and Ireland. *Entomologist's Weekly Intelligence* **7**: 67-70.

—— (1859) Additional notes on the geographical distribution of Sphingina in Great Britain and Ireland. *Entomologist's Weekly Intelligence* **7**: 110-111.

—— (1867) Nomenclature of the European *Satyridae. Entomologist* **3**: 291-293.

—— (1867) *Dianthoecia barrettii* in Ireland. *Entomologist* **3**: 349 & 367.

—— (1867) Capture of *Dianthoecia barrettii*. *Entomologist's mon. Mag.* **4**: 90.

—— (1868) Captures of Lepidoptera in Galway. *Entomologist's mon. Mag.* **4**: 256.

—— (1868) *Pyrgus malvae* (*alveolus*) possibly not Irish. *Entomologist's mon. Mag.* **4**: 282.

—— (1868) Capture of *Dianthoecia barrettii*. *Entomologist's mon. Mag.* **5**: 47.

—— (1869) (*Lasiocampa calunae*). *Proceedings of the Natural History Society of Dublin* **6**: 15.

—— (1874) *Coriscium brongniardellum* in Ireland. *Entomologist's mon. Mag.* **11**: 117.

—— (1877) *Choerocampa celerio* in Ireland. *Entomologist's mon. Mag.* **14**: 185.

Kirkaldy, G. W. (1902) (Review of Kane, 1902). *Entomologist* **35**: 54-56.

Kitchin, V. P. (1906) Variation in *Melitaea aurinia*. *Entomologist* **39**: 31-32.

Knaggs, H. G. (1865) Lepidoptera. Notes on British Lepidoptera (excepting Tineina) for 1864. *The Entomologist's Annual* **1865**: 97-116.

—— (1866) Notes on British Lepidoptera (excepting Tineina) for 1865. *The Entomologist's Annual* **1866**: 138-166.

—— (1867) Lepidoptera. Notes on new and rare British Lepidoptera (excepting Tineina) in 1866. *The Entomologist's Annual* **1867**: 127-160.

—— (1900) Notes on certain Scopariae. *Entomologist* **33**: 109-116.

Knill-Jones, R. (2020) Obituary. Samuel Alan Knill-Jones November 1942-3 August 2020. *Entomologist's Rec. J. Var.* **132**: 249-252. (collecting visits to Ireland)

Knill-Jones, S. A. (1965) The discovery of an Irish subspecies of *Luperina nickerlii* Freyer (Lep., Noctuidae). *Entomologist's Gazette* **16**: 3-6.

Kolaj, A. (1996) Exhibition report for 1995 (8th October). *Bulletin of the Amateur Entomologists' Society* **55**: 150-151. (moths from the Burren)

Kuchlein, J. H. and Naves, C. G. A. M. (2002) *Epinotia signatana*, a new tortricid moth for the Dutch fauna. *Entomologische Berichten* **62**: 61-63.

Kudrna, O. (1975) A revision of the Genus *Gonepteryx* Leach (Lep., Pieridae). *Entomologist's Gazette* **26**: 3-37.

Kudrna, O., Harpke, A., Lux, K., Pennerstorfer, J., Schweiger, O., Settele, J. and Wiemers, M. (2011) *Distribution atlas of butterflies in Europe*. Gesellschaft für Schmetterlingsschutz e.v., Halle.

Labouchere, F. A. (1931) (*Chrysophanus rutilis*). *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 77.

—— (1937) (*Polyommatus icarus*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1937-38**: 24.

Lambert, A. (1842) Localities and times of appearance of *Agrotis*. *Entomologist* **1**: 372-373.

Langham, C. (1905) Some Lepidoptera from County Fermanagh. *Ir. Nat.* **14**: 110-111.

—— (1914) *Schoenobius mucronellus* in County Fermanagh. *Ir. Nat.* **23**: 21-22.

—— (1917) Entomological notes. *Ir. Nat.* **26**: 114-117.

—— (1921) Notes on Lepidoptera. *Ir. Nat.* **30**: 24.

—— (1922) Some forms of *Pieris napi* taken in County Fermanagh. *Ir. Nat.* **31**: 42-45.

Langham, J. (1947) Camberwell Beauty in Co. Wexford. *Ir. Nat. J.* **9**: 99.

Langmaid, J. R. (1989) Lepidoptera in Ireland, August 1986. *Entomologist's Gazette* **40**: 307-313.

Langmaid, J. R., Palmer, S. M. and Young, M. R. (2018) *A field guide to the smaller moths of Great Britain and Ireland.* BENHS Books, Dinton Pastures.

Langmaid, J. R. and Young, M. R. (1999) Microlepidoptera review of 1997. *Entomologist's Rec. J. Var.* **111**: 105-119.

—— (1999) Microlepidoptera review of 1998. *Entomologist's Rec. J. Var.* **111**: 249-258. (including *Ypsolopha mucronella* (Scopoli) new to Ireland)

—— (2000) Microlepidoptera review of 1999. *Entomologist's Rec. J. Var.* **112**: 189-203.

—— (2001) Microlepidoptera review of 2000. *Entomologist's Rec. J. Var.* **113**: 241-254. (*Phyllocnistis unipunctella*, *Coleophora pappiferella*, *Stenoptilia zophodactylus* - all new)

—— (2003) Microlepidoptera review of 2002. *Entomologist's Rec. J. Var.* **115**: 249-272.

—— (2004) Microlepidoptera review of 2003. *Entomologist's Rec. J. Var.* **116**: 193-214.

—— (2005) Microlepidoptera review of 2004. *Entomologist's Rec. J. Var.* **117**: 231-251.

—— (2006) Microlepidoptera review of 2005. *Entomologist's Rec. J. Var.* **118**: 241-265.

—— (2007) Microlepidoptera review of 2006. *Entomologist's Rec. J. Var.* **119**: 241-266.

—— (2009) Microlepidoptera review of 2007. *Entomologist's Rec. J. Var.* **121**: 13-32.

—— (2009) Microlepidoptera review of 2008. *Entomologist's Rec. J. Var.* **121**: 265-287.

—— (2010) Microlepidoptera review of 2009. *Entomologist's Rec. J. Var.* **122**: 233-253.

—— (2011) Microlepidoptera review of 2010. *Entomologist's Rec. J. Var.* **123**: 249-296.

—— (2012) Microlepidoptera review of 2011. *Entomologist's Rec. J. Var.* **124**: 249-276. (also corrections for 2006 & 2010 reviews including *Lobesia abscisana* and *Grapholito orobana* (now *lunulana*). The year 2010 is erroneously given in the original title)

Langmaid, J. R. and Young, M. R. (2013) Microlepidoptera review of 2012. *Entomologist's Rec. J. Var.* **125**: 205-230.

—— (2014) Microlepidoptera review of 2013. *Entomologist's Rec. J. Var.* **126**: 197-225.

—— (2015) Microlepidoptera review of 2014. *Entomologist's Rec. J. Var.* **127**: 237-264.

—— (2016) Microlepidoptera review of 2015. *Entomologist's Rec. J. Var.* **128**: 279-307.

—— (2017) Microlepidoptera review of 2016. *Entomologist's Rec. J. Var.* **129**: 265-290. (correction to 2015 review: *Eana penziana colquhounana* N160683 should read M160863; *Crambus pascuella* grid ref. "N" should read "M")

Langton, P. H. (2004) *Chrysodeixis acuta* (Walker, 1858) (Lepidoptera: Noctuidae), the Tunbridge Wells Gem, an adventine new to Northern Ireland. *Entomologist's Gazette* **55**: 102.

Lansbury, I. (1961) *Vanessa atalanta* L. (Lep., Nymphalidae) in the Aran Islands. *Entomologist's Gazette* **12**: 35.

Lavery, D. B. (1990) Ode to a butterfly. *Bulletin of the Amateur Entomologists' Society* **49**: 229. (poem)

Lavery, J. (1991) Record of rare Small Quaker Moth in Ireland. *Bulletin of the Amateur Entomologists' Society* **50**: 125.

Lavery, J. and O'Sullivan, M. J. (1990) The Purple Hairstreak (*Quercusia quercus* L.) in County Kerry. *Bulletin of the Amateur Entomologists' Society* **49**: 257-260.

Lavery, J. W. (1983) Irish Clouded Yellows. *Bulletin of the Amateur Entomologists' Society* **42**: 35.

—— (1987) A record of breeding *Boloria euphrosyne* - the Pearl-Bordered Fritillary. *The Environment* **1**: 9.

—— (1988) A new county record for the Scarce Umber Moth. *Agriopis aurantiaria* in County Kerry. *Bulletin of the Amateur Entomologists' Society* **47**: 152.

—— (1988) Butterflies of Ireland. *Irish Environment News* **1**: 26-30.

—— (1988) An early capture of the Painted Lady in Ireland. *Bulletin of the Amateur Entomologists' Society* **47**: 152.

—— (1989) Occurrence of the Purple Hairstreak (*Quercusia quercus*) at Kenmare, Co. Kerry. *Bulletin of the Amateur Entomologists' Society* **48**: 184.

—— (1989) Some observations on breeding ssp *hibernica* of the Orange-tip Butterfly. *Bulletin of the Amateur Entomologists' Society* **48**: 186-187.

—— (1989) Notes and records from Ireland. *Bulletin of the Amateur Entomologists' Society* **48**: 97.

—— (1991) A new Irish locality for the Purple Hairstreak. *Bulletin of the Amateur Entomologists' Society* **50**: 99.

—— (1991) Observation of a colony migration of the species *Pyronia tithonus* (gatekeeper) at Glengarriff, August 1989. *Irish Insects Study Group Newsletter* **No. 5**: 15-17.

—— (1991) Clouded Yellows and Convolvulus Hawkmoth migrants to Co. Kerry. *Bulletin of the Amateur Entomologists' Society* **50**: 125.

—— (1991) Insects on birch. *Bulletin of the Amateur Entomologists' Society* **50**: 259-260. (Lep., Hym.: *Cimbex femoratus*)

—— (1991) New records for *Atolmis rubricollis* (Red-necked Footman), in County Kerry, Ireland. *Bulletin of the Amateur Entomologists' Society* **50**: 263-264.

Lavery, T. A. (1989) The Mottled Grey, a first record for Southern Ireland. *Bulletin of the Amateur Entomologists' Society* **48**: 150. (*Colostygia multistrigaria*)

—— (1989) Irish Lepidoptera records. *Bulletin of the Amateur Entomologists' Society* **48**: 120.

—— (1989) The Heath Fritillary (*Mellicta athalia* Rott.): did it really occur in Ireland? *Bulletin of the Amateur Entomologists' Society* **48**: 158-159.

—— (1990) The history of the Large Copper introductions to Ireland. *Bulletin of the Amateur Entomologists' Society* **49**: 33-36.

—— (1990) Some Irish moth records. *Bulletin of the Amateur Entomologists' Society* **49**: 159-163.

—— (1991) Report on migrant insects in Ireland for 1990. *Ir. Nat. J.* **23**: 458-461.

—— (1991) The hawkmoths of Ireland. *Bulletin of the Amateur Entomologists' Society* **50**: 73-80.

—— (1991) The Lesser Broad-bordered Yellow Underwing in Ireland and a name change from *janthina* to *janthe*. *Bulletin of the Amateur Entomologists' Society* **50**: 238-239.

—— (1992) Some interesting insects from Killarney National Park, Co. Kerry. *Bulletin of the Amateur Entomologists' Society* **51**: 239-240. (Dipt., Lep.)

—— (1993) A review of the distribution, ecology and status of the Marsh Fritillary *Euphydryas aurinia* Rottemburg, 1775 (Lepidoptera: Nymphalidae) in Ireland. *Ir. Nat. J.* **24**: 192-199.

Lavery, T. A. and Lavery, D. (1989) Interesting spring moth records. *Bulletin of the Amateur Entomologists' Society* **48**: 109.

—— (1989) Early Moth in Southern Ireland. *Bulletin of the Amateur Entomologists' Society* **48**: 118.

Lavery, T. A. and Lavery, J. W. (1987) *An illustrated checklist of Irish butterflies.* Country Watch Publications, Farnes. 8pp.

Lawless, E. (1867) An addition to Mr Birchall's List of "The Lepidoptera of Ireland". *Entomologist's mon. Mag.* **3**: 187.

—— (1872) Irish captures in 1870 and 1871. *Entomologist* **6**: 74-78, 97-100.

Leeds, -. (1917) (*Vanessa io*). *Proceedings of the South London Entomological and Natural History Society* **1917-18**: 39.

Lees, E. (1962) Factors determining the distribution of the Speckled Wood Butterfly (*Pararge aegeria* L.) in Great Britain. *Entomologist's Gazette* **13**: 101-103.

Lees, E. and Archer, D. M. (1974) Ecology of *Pieris napi* (L.) (Lep. Pieridae) in Britain. *Entomologist's Gazette* **25**: 231-237.

Lempke, B. J. (1952) A note on rearing the larva of *Luceria virens* Linn. *Entomologist's Rec. J. Var.* **64**: 72-73.

—— (1974) *Alcis jubata* (Thunberg) in Ireland. *Entomologist's Rec. J. Var.* **86**: 169.

—— (1981) Report of a Pale Clouded Yellow: *Colias hyale* L. and other migrant Lepidoptera in Ireland in 1980. *Entomologist's Rec. J. Var.* **93**: 218.

Lennon, L., Aldwell, B., Hardiman, D., Nash, D. and Smyth, F. (2013) Confirmation of the presence of the Small Skipper Butterfly *Thymelicus sylvestris* (Poda, 1761) (Lepidoptera: Hesperiidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **37**: 17-19.

Lett, H. W. (1902) Lepidoptera in Co. Mayo. *Ir. Nat.* **11**: 172.
Levinge, N. V. (1909) Lepidoptera in Co. Westmeath. *Ir. Nat.* **18**: 25.
Lightfoot, G. (2006) An aberrant Marbled White Spot *Protodeltote pygarga* in Ireland. *Atropos* **27**: 85-86.
Lipscomb, C. G. (1963) From *machaon* to *icarus*. *Entomologist's Rec. J. Var.* **75**: 215-217.
Lisney, A. A. (1926) Notes on the Red Admiral and Painted Lady Butterflies. *Ir. Nat. J.* **1**: 116.
—— (1927) Early appearance of *Mamestra thalassina*. *Entomologist* **60**: 200.
—— (1929) Report on recent additions to the Irish fauna and flora. Lepidoptera. *Proceedings of the Royal Irish Academy* **39**B: 17-21.
—— (1931) A migration of Lepidoptera. *Ir. Nat. J.* **3**: 217.
—— (1937) (*Mnesipatris filicivora*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1937-38**: 24.
—— (1940) New records for Irish Lepidoptera. *Entomologist* **73**: 123-128, 150-155.
—— (1951) Irish Lepidoptera - a brief introduction. *Entomologist's Gazette* **2**: 85-86.
Littlewood, N. A., Keown, P. and Toney, R. (2020) *Pyrausta aurata* (Scopoli, 1763) (Lep.: Crambidae): an adventive species new to Ireland. *Entomologist's Rec. J. Var.* **132**: 211.
Lock, B. (2014) The first British record of Burren Green *Calamia tridens*. *Atropos* **52**: 76.
Long, M. (2004) Report of Galway Naturalists' Field Club (Club Nádúraithe na Gaillimhe) 2002-2003. *Ir. Nat. J.* **27**: 366-368.
Longfield, C. (1894) *Smerinthus ocellatus* in West Cork. *Ir. Nat.* **3**: 243.
—— (1929) Early dates for *Pyrameis atalanta* and *Pyrameis cardui*. *Entomologist* **62**: 53.
—— (1929) Spring records of Rhopalocera from S. Ireland. *Entomologist* **62**: 186-187.
—— (1931) Black forms of the larvae of *Phryxus livornica* in Co. Cork. *Entomologist* **64**: 280-281.
—— (1934) Black forms of larvae of Striped Hawk Moth, *Phryxus livornica*, in Co. Cork. *Ir. Nat. J.* **5**: 88-89.
Low, G. E. (1893) *Thera firmata* in Co. Dublin. *Ir. Nat.* **2**: 277.
Low, P. and Low, N. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 156.
Lucas, G. E. (1929) The occurrence of the American Wainscot Moth in Ireland. *Ir. Nat. J.* **2**: 178-179.
—— (1930) Convolvulus Hawk Moths in County Cork. *Ir. Nat. J.* **3**: 133.
—— (1931) Lepidoptera in the vicinity of Gougane Barra, Co. Cork. July, 1930. *Ir. Nat. J.* **3**: 231-232.
—— (1936) Microlepidoptera records from S. and S.W. Ireland. *Ir. Nat. J.* **6**: 147-148.
—— (1938) Co. Kerry Moths. *Ir. Nat. J.* **7**: 88.
—— (1940) Second brood of the Holly Blue in Ireland. *Ir. Nat. J.* **7**: 304.
Luckens, C. J. (1985) 1984 Annual Exhibition. British butterflies. *Proceedings and Transactions of the British Entomological and Natural History Society* **18**: 6-8. (p. 6 Barrington, R. D. G.: butterflies taken in Eire)
Lyne, J. E. (1969) *Lycaena* ? *dispar batavus* L. (Large Copper) in Ireland. *Entomologist's Rec. J. Var.* **81**: 305.
Lyon, F. H. (1955) Spring butterflies in Southern Ireland. *Entomologist* **88**: 136.
Lysaght, D. (2012) The butterfly effect. *Biodiversity Ireland* **Issue 11**: 9.

Lysaght, L. (2020) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 20**: 17.

MacMahon, C. (1966) Humming-bird Hawk Moth *Macroglossa stellatarum* L. on Rathlin Island. *Ir. Nat. J.* **15**: 155.

Madden, G. C. B. (1882) Lepidoptera in Ireland. *Naturalist* **8**: 26.

Magurran, A. E. (1985) The diversity of Macrolepidoptera in two contrasting woodland habitats at Banagher, Northern Ireland. *Proceedings of the Royal Irish Academy* **85**B: 121-132.

Main, H. (1905) Annual Address to Members. *Proceedings of the South London Entomological and Natural History Society* **1905-06**: 55-58.

—— (1907) Some notes of *Pieris napi*. *Proceedings of the South London Entomological and Natural History Society* **1907-08**: 16-19.

—— (1935) Yellow *Pieris napi*. *Entomologist* **68**: 176.

Majerus, M. E. N. (1979) The status of *Anthocharis cardamines hibernica* Williams (Lepidoptera: Pieridae), with special reference to the Isle of Man. *Entomologist's Gazette* **30**: 245-248.

Maki, A. M. (2010) Aquatic macroinvertebrate biodiversity of an Irish constructed wetland system, two years after construction. *Bulletin of the Irish Biogeographical Society* **34**: 128-138.

Malcomson, W. (1918) *Manduca* (*Acherontia*) *atropos* and *Sphinx convolvuli* in Ireland. *Entomologist* **51**: 139.

Manders, N. (1913) The butterflies of the Curragh District. *Entomologist* **46**: 292-293.

—— (1913) Birds eating butterflies. *Entomologist* **46**: 292.

Manley, C. (2015) *British moths. A photographic guide to the moths of Britain and Ireland.* Second Edition. Bloomsbury, London.

Mansbridge, W. (1913) (Lepidoptera). *Proceedings of the Lancashire and Cheshire Entomological Society* **37**: 16.

Mansbridge, W. and Wright, A. E. (1939) The life-history of *Blastobasis lignea*, Wals. *Entomologist* **72**: 27-30.

Marcon, J. (1978) Further memoirs of a butterfly hunter. *Entomologist's Rec. J. Var.* **90**: 167-169.

Marcon, J. N. (1934) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1934-35**: 49.

—— (1936) (*Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1936-37**: 45.

—— (1953) A holiday in Western Ireland. *Entomologist's Rec. J. Var.* **65**: 105-107.

Marsden, H. (1869) Irish Lepidoptera in April, 1869. *Entomologist's mon. Mag.* **6**: 39-40.

—— (1869) Addition to the List of Irish Lepidoptera. *Entomologist's mon. Mag.* **6**: 66.

Mason, L. (1935) Records of immigrant and other insects - Northern Ireland. *Ir. Nat. J.* **5**: 258-259.

Mason, S. C., Hill, J. K., Thomas, C. D., Powney, G. D., Fox, R., Brereton, T. and Oliver, T. H. (2018) Population variability in species can be deduced from opportunistic citizen science records: a case study using British butterflies. *Insect Conservation and Diversity* **11**: 131-142.

Mason, T. H. (1935) Clouded Yellow and Common Blue Butterflies in Dublin. *Ir. Nat. J.* **5**: 286.

—— (1942) (The 1941 Clouded Yellow migration). *Ir. Nat. J.* **8**: 10.

—— (1943) Striped Hawk-Moth in Dublin. *Ir. Nat. J.* **8**: 113.

—— (1943) Clouded Yellow in Co. Dublin. *Ir. Nat. J.* **8**: 113.

Massey, H. (1908) The geographical bearing on the variation in size of *Polyommatus icarus*. *Entomologist's Rec. J. Var.* **20**: 144.

Mathew, G. F. (1909) (*Leucania loreyi*). *Entomologist's Rec. J. Var.* **22**: 302.

—— (1910) *Leucania loreyi*, etc., in the South of Ireland; *Leucania vitellina*, etc., in Kent. *Entomologist* **43**: 351.

—— (1910) *Leucania loreyi* in the South of Ireland. *Entomologist's mon. Mag.* **46**: 282.

—— (1911) Abnormal emergence of *Coremia designata*. *Entomologist* **44**: 67-68.

—— (1912) Notes from an Essex lepidopterist's diary for 1911. *Entomologist* **45**: 135-136.

—— (1917) "Rare butterflies in flocks". *Entomologist* **50**: 240.

Mathews, G. F. (1865) *Thecla betulae*, near Cork. *Entomologist's mon. Mag.* **1**: 116.

May, P. R. (2003) *Larval foodplants of the butterflies of Great Britain and Ireland.* Amateur Entomologists' Society, Orpington, Kent. 62pp.

McAree, D. T. and MacKenzie, R. F. (1993) Guarding against potential threats to Irish forests. Pp 83-94. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

McArthur, H. (1893) Co. Cork, Ireland. *Entomologist* **26**: 162.

McClean, H. (1895) (Notes of the Season 1894). *Entomologist's Rec. J. Var.* **6**: 92.

—— (1895) Short notes from the exchange baskets. *Entomologist's Rec. J. Var.* **6**: 44.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork.

McCormick, R. (1990) Report on, and exhibitors at, the 1989 exhibition. *Bulletin of the Amateur Entomologists' Society* **49**: 91-95. (p. 94 Skinner, B.: *M. furuncula* D. & S., *C. haworthii* Curt. ab. *hibernica* Steph.)

—— (1991) Report on, and exhibitors at, the 1990 exhibition. *Bulletin of the Amateur Entomologists' Society* **50**: 174-95. (p. 176 Fox, D.: Irish butterflies)

—— (1999) Saturday 3rd October 1998 - The Annual Exhibition: a report. *Bulletin of the Amateur Entomologists' Society* **58**: 129-134. (species taken or bred through from the Burren)

—— (2000) Saturday 3nd October 1999 - The Annual Exhibition: a report. *Bulletin of the Amateur Entomologists' Society* **59**: 126-131. (includes specimens from an Irish holiday)

—— (2008) Specimens from a holiday on the Burren in Ireland and a journey to Kent. *Bulletin of the Amateur Entomologists' Society* **67**: 22.

McCracken, A. R. and Blackshaw, R. P. (1993) The protection of the Northern Ireland nursery stock industry from harmful organisms. Pp 55-66. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

McCutcheon, W. I. (1965) *Thecla betulae*, Brown Hairstreak Butterfly in Co. Tipperary. *Ir. Nat. J.* **15**: 55.

McDonagh, R. S. (1941) The morphology of *Luffia ferchaultella* (Stephens) and a comparison with *Luffia lapidella* (Goeze) (Lep. Psychidae). *Transactions of the Society of British Entomology* **7**: 191-209.

McDowall, H. (1894) *Spilosoma mendica* var *rustica*. *Entomologist* **27**: 23.

McGurdy, A. (1998) Brimstone in Monkstown, Co. Dublin. *Bulletin of the Amateur Entomologists' Society* **57**: 186.

McIlveen, D. (2015) Argent & Sable *Rheumaptera hastata* (L., 1758) larva feeding on Himalayan Knotweed *Persicaria wallichii*. *Atropos* **55**: 42-44.

McMahon, S. (1931) Convolvulus Hawk Moth. *Ir. Nat. J.* **3**: 157.

Meek, E. G. (1869) *Dianthoecia compta* and *D. barrettii* at Howth. *Entomologist's mon. Mag.* **6**: 66.

—— (1869) *Dianthoecia compta* and *D. barrettii* in Howth. *Entomologist* **4**: 325.

—— (1870) Captures of Lepidoptera in 1870. *Entomologist's mon. Mag.* **7**: 87.

—— (1873) *Dianthoecia compta*. *Entomologist* **6**: 546-547. **7**: 19-20.

—— (1874) *Dianthoecia compta* in Howth. *Entomologist* **7**: 19-20.

—— (1878) (*Procris statices*). *Entomologist* **11**: 104.

—— (1881) *Eupithecia jasioneata*. *Entomologist's mon. Mag.* **18**: 87.

—— (1881) *Eupithecia jasioneata*, Crewe. *Entomologist* **14**: 212-213.

Meinertzhagen, R. (1946) Bath White Butterfly in Ireland. *Ir. Nat. J.* **8**: 336.

—— (1947) October in Co. Kerry - plants and birds. *Ir. Nat. J.* **9**: 63-68.

Mera, A. W. (1901) Hybrid *Oporabias*. *Entomologist's Rec. J. Var.* **13**: 360.

Mere, R. M. (1953) *Apatele euphorbiae* Fabr., double brooded on the Burren? *Entomologist's Gazette* **4**: 246.

—— (1955) What next? *Entomologist's Gazette* **6**: 224-227.

Mere, R. M., Bradley, J. D. and Pelham-Clinton, E. C. (1964) Lepidoptera in Ireland, May-June, 1962. *Entomologist's Gazette* **15**: 66-92.

Mere, R. M., and Pelham-Clinton, E. C. (1966) Lepidoptera in Ireland, 1963, 1964, and 1965. *Entomologist's Gazette* **17**: 163-182.

Mere, R. M., Pelham-Clinton, E. C. and Bradley, J. D. (1962) Lepidoptera in Ireland, May, 1961. *Entomologist's Gazette* **13**: 159-177, plate IV.

Merrifield, F. (1906) Egglaying of *Dryas paphia*. *Entomologist's Rec. J. Var.* **18**: 264-265.

Meyrick, E. (1937) A new species of Lamproniadae (Microlepidoptera) from Ireland. *Entomologist* **70**: 194.

Middleton, B. L. (1901) Lepidoptera in Co. Westmeath. *Entomologist* **34**: 102.

—— (1902) *Vanessa urticae*, ab. *Entomologist* **35**: 321.

—— (1902) Abundance of *Melitaea aurinia* in Co. Westmeath. *Entomologist* **35**: 27.

—— (1906) Notes on Irish Lepidoptera. *Entomologist* **39**: 91.

Millar, R. (1967) The avifauna of the East Twin, Belfast Harbour and some natural history notes. *Ir. Nat. J.* **15**: 258-266. (butterflies)

Milne, J. N. (1906) *Mamestra persicariae* in Antrim. *Ir. Nat.* **15**: 190.

Minchin, D. (2019) The Horse-chestnut Leaf Miner (*Cameraria ohridella* Deschka and Demić) (Lepidoptera: Gracillariidae), arrives in Co. Clare. *Ir. Nat. J.* **36**: 153-154.

Moffat, C. B. (1892) Butterfly reappearances. *Ir. Nat.* **1**: 145-146.

—— (1894) The Brown Hairstreak (*Thecla betulae*) in County Wexford. *Ir. Nat.* **3**: 223.

Moffat, C. B. (1894) The Small Heath Butterfly. (*Coenonymph pamphilus*): single or double brooded? *Ir. Nat.* **3**: 223.
—— (1895) *Thecla betulae* in Co. Wexford. *Ir. Nat.* **4**: 78.
—— (1897) *Bupalus piniaria*, L., in Ireland. *Ir. Nat.* **6**: 283.
—— (1898) A visit to the Copelands. *Ir. Nat.* **7**: 38-40.
—— (1899) *Macroglossa stellatarum* in 1899. *Ir. Nat.* **8**: 185.
—— (1900) *Gnophria quadra* in Co. Wexford and the Isle of Man. *Ir. Nat.* **9**: 292.
—— (1907) The problems of an island fauna. *Ir. Nat.* **16**: 133-145.
—— (1913) Bees and flowers. *Ir. Nat.* **22**: 65-74.
—— (1918) *Argynnis aglaia* in North-West Wexford. *Ir. Nat.* **27**: 172.
—— (1918) New locality for *Thecla betulae*. *Ir. Nat.* **27**: 172.
—— (1919) *Leucophasia sinapis* in Co. Wexford. *Ir. Nat.* **28**: 106.
—— (1920) Scarcity of the Small Tortoiseshell Butterfly. *Ir. Nat.* **29**: 121.
—— (1922) Some habits of the Red Admiral and Painted Lady Butterflies. *Ir. Nat.* **31**: 61-65.
—— (1922) The habits of the Long-Eared Bat. *Ir. Nat.* **31**: 105-111.
—— (1928) Brimstone Butterfly in County Dublin. *Ir. Nat. J.* **2**: 73-74.
—— (1930) Peacock Butterfly hibernating in house. *Ir. Nat. J.* **3**: 91.
—— (1931) The Long-Eared Bat. *Ir. Nat. J.* **3**: 182-185.
—— (1932) Daubenton's Bat. *Ir. Nat. J.* **4**: 26-28.
—— (1932) The Whiskered Bat. *Ir. Nat. J.* **4**: 106-109.
—— (1935) Butterflies and birds. *Ir. Nat. J.* **5**: 225-227.
Moles, R. and Hayes, K. (2002) Short communication - evaluating biodiversity through functional groups: a comparison of functional groups and biodiversity measures. *Biology and Environment: Proceedings of the Royal Irish Academy* **102**B: 113-117.
Montgomery, -. (1907) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1907-08**: 98.
Moore, A. and Miller, R. H. (2008) *Daphnis nerii* (Lepidoptera: Sphingidae), a new pest of oleander on Guam, including notes on plant hosts and egg parasitism. *Proceedings of the Hawiian Entomological Society* **40**: 67-70.
Moore, J. (1951) Lepidoptera in Munster. *Bulletin of the Amateur Entomologists' Society* **10**: 103.
Moriarty, C. (1974) Chimney Sweeper Moth *Odezia atrata* L. on Wicklow Coast. *Ir. Nat. J.* **18**: 94.
Morley, B. (1915) (*Spilosoma mendica*). *Entomologist's mon. Mag.* **51**: 45.
Morris, M. G. and Duffy, E. (1970) Abundance of the Wood White Butterfly, *Leptidea sinapis* (L.) (Lep., Pieridae) in the Burren Co. Clare, in June, 1970. *Entomologist's Gazette* **21**: 237-238.
Morton, K. J. (1916) *Vanessa urticae* and other butterflies in Co. Monaghan. *Entomologist's mon. Mag.* **52**: 231.
Murray, D. (1954) *Eurois occulta* L. in Ireland. *Entomologist's Rec. J. Var.* **66**: 295.
Murray, H. (1947) Some rare Lepidoptera from Southern Ireland. *Ir. Nat. J.* **9**: 77-78.
Murray, T. (2015) Tracking our butterflies and bees. *Biodiversity Ireland* **Issue 11**: 6-8.
—— (2015) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 11**: 23.
—— (2015) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 12**: 20.

Murray, T. (2016) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 13**: 17.
—— (2016) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 14**: 18.
—— (2017) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 15**: 18.
—— (2017) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 16**: 18.
—— (2018) How to pursue butterflies from 2018 to 2021. Butterfly atlas 2021. *Biodiversity Ireland* **Issue 17**: 14-15.
—— (2018) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 17**: 18.
—— (2018) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 18**: 17.
—— (2019) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 19**: 18.

Musgrave, J. A. (1937) Pearly Underwing Moth, *Agrotis saucia* Hb., attacking tomato plants. *Ir. Nat. J.* **6**: 303.

Myers, A. A. (1967) The rearing of *Luperina nickerlii knilli* Boursin (1964) (Lep., Noctuidae) under laboratory conditions. *Entomologist* **100**: 13-15.
—— (1968) The diet of the *Hadena rivularis* Fab. (Lep., Hadeninae) group of species. *Entomologist* **101**: 35-36, 147-149.
—— (1974) Migrant Lepidoptera in Co. Cork, and a note on the pabulum of *Hadena perplexa capsophila* (Duponchel) (Lep., Noctuidae) in S.W. Ireland. *Entomologist's Gazette* **25**: 140.
—— (1975) Temporary residence of *Mythimna loreyi* (Duponchel) in S.W. Ireland with a note on the occurrence of other migratory Lepidoptera. *Entomologist's Rec. J. Var.* **87**: 302.
—— (1977) The effect of temperature during pupal actiphase on imaginal colouration in *Mythimna loreyi* (Duponchel) (Lep., Noctuidae). *Entomologist's Gazette* **28**: 75-79, plate 5.
—— (1979) A late migration of Lepidoptera to Co. Cork in 1978. *Entomologist's Gazette* **30**: 76.
—— (1979) *Discestra trifolii* (Hufnagel) (Lepidoptera: Noctuidae) in Ireland. *Entomologist's Gazette* **30**: 46.
—— (1979) Confirmation of *Zeuzera pyrina* (Linnaeus) (Lepidoptera: Cossidae) as an Irish species. *Entomologist's Gazette* **30**: 30.
—— (1979) A first record of *Hoplodrina ambigua* (D & S) (Lepidoptera: Noctuidae) from Ireland and its possible establishment as an Irish resident. *Entomologist's Gazette* **30**: 6.
—— (1981) Migrant nocturnal Lepidoptera in Co Cork, 1971-1980. A review. *Ir. Nat. J.* **20**: 301-302.
—— (1982) First Irish record of *Eupithecia phoeniciata* (Rambur) (Lepidoptera: Geometridae). *Entomologist's Gazette* **33**: 47.
—— (1983) *Cyclophora pupillaria* (Hübner) (Lepidoptera: Geometridae) new to Ireland. *Entomologist's Gazette* **34**: 116.
—— (1983) *Eupithecia phoeniciata* (Rambur) (Lepidoptera: Geometridae) resident in south-west Ireland. *Entomologist's Gazette* **34**: 124.
—— (1985) *Agrotis crassa* (Hübner) (Lepidoptera: Noctuidae) and other migrants in south-west Ireland, 1984. *Entomologist's Gazette* **36**: 14.

Nash, D. (2008) Butterflies. *Biodiversity Ireland* **Issue 1**: 8-9.

Nash, D., Boyd, T. and Hardiman, D. (2012) *Ireland's butterflies: a review.* Dublin Naturalists' Field Club, Dublin.

Nash, D. and Hardiman, D. (2018) Lime Hawk-moth (*Mimas tiliae* (L.)) breeding in a suburban Dublin (H21) garden. *Ir. Nat. J.* **36**: 51-53.

Nash, D. W., Boyd, T. and Walsh, P. M. (2011) Lepidoptera review, 2008. *Ir. Nat. J.* **31** (2010): 71-72.

Nash, D. W. and Hardiman, D. M. (2000) The Brown Hairstreak *Theca betulae* L. (Lepidoptera) in north Tipperary (H10). *Ir. Nat. J.* **26** (1999): 277-278.

—— (2013) A review of the Pearl-bordered Fritillary (*Boloria euphrosyne* (L.)) in Ireland. *Ir. Nat. J.* **32**: 132-137.

Nash, R. (1975) The butterflies of Ireland. *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 69-73.

—— (1986) The Butterfly Garden at Drum Manor, Co Tyrone. *Ir. Nat. J.* **22**: 130.

Nash, R., Hughes, M., Nelson, B. and Warren, M. (2001) Real's Wood White *Leptidea reali* Reissinger, 1989: a butterfly new to Britain and Ireland. *Atropos* **14**: 12-16.

Nash, R. and Samson, C. (1990) A fourth Irish specimen of the Small Mountain Ringlet *Erebia epiphron* Knoch (Lepidoptera). *Ir. Nat. J.* **23**: 339.

Nash, S. and Skinner, B. (2005) The immigration of Lepidoptera to the British Isles in 2001. *Entomologist's Rec. J. Var.* **117**: 1-27.

National Biodiversity Data Centre (2020) All Ireland Marsh Fritillary Database. <https://maps.biodiversityireland.ie/Dataset/226>

—— (2020) Butterflies of Ireland. <https://maps.biodiversityireland.ie/Dataset/116>

—— (2020) Distribution Atlas of Butterflies in Ireland 1979 (An Foras Forbartha), National Biodiversity Data Centre, Ireland. <https://maps.biodiversityireland.ie/Dataset/94>

—— (2020) Moth Records of Ireland. <https://maps.biodiversityireland.ie/Dataset/268>

—— (2020) Leafminers of Ireland. <https://maps.biodiversityireland.ie/Dataset/254> (Col., Dipt., Hym., Lep.)

National Parks & Wildlife Service (2020), Irish Wood White Database. <https://maps.biodiversityireland.ie/Dataset/103>

Neal, M. and Rankin, D. H. (1939) Additions to the Lepidoptera of Co Down. *Ir. Nat. J.* **7**: 188.

Neale, F. (1892) Lepidoptera from the Limerick District. *Ir. Nat.* **1**: 169-170.

—— (1892) *Trochilium crabroniformis*. *Ir. Nat.* **1**: 42-43.

—— (1892) (*Nisoniades tages*). *Ir. Nat.* **1**: 2.

—— (1892) (Lepidoptera). *Ir. Nat.* **1**: 40.

—— (1893) (*Melitea aurinia*). *Ir. Nat.* **2**: 118.

—— (1893) *Gonopteryx rhamni* and *Nonagria arundinis*, near Limerick. *Ir. Nat.* **2**: 252.

—— (1893) (*Argynnis paphia* gynandromorph). *Ir. Nat.* **2**: 83.

—— (1896) Lepidoptera. *Ir. Nat.* **5**: 111.

—— (1898) (*Gonepteryx rhamni*). *Ir. Nat.* **7**: 58.

Neale, F. (1899) (*Zygaena pilosellae*). *Ir. Nat.* **8**: 49.

—— (1899) The butterflies of Limerick and Clare. *Journal of the Limerick Field Club* **1**: 42-44.

—— (1900) (Lepidoptera). *Ir. Nat.* **9**: 78.

—— (1905) *Melitaea aurinia* in Co. Kildare. *Ir. Nat.* **14**: 181.

Nelson, B. (1997) Species Inventory for Northern Ireland: Butterflies and larger moths (Lepidoptera). *Environment and Heritage Service Research and Development Series* **No. 97/6**.

—— (2002) The distribution, status and habitat of the Marsh Fritillary Butterfly *Euphyryas aurinia* (Lepidoptera: Nymphalidae) in Northern Ireland. *Ir. Nat. J.* **27**: 129-139.

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland. (butterflies, macromoths)

Nelson, B., Hughes, M. and Bond, K. (2011) The distribution of *Leptidea sinapis* (Linnaeus, 1758) and *L. reali* Reissinger, 1989 (Lepidoptera: Pieridae) in Ireland. *Entomologist's Gazette* **62**: 213-233.

Nelson, B., Hughes, M., Nash, R. and Warren, M. (2001) *Leptidea reali* Reissinger 1989 (Lep.: Pieridae): a butterfly new to Britain and Ireland. *Entomologist's Rec. J. Var.* **113**: 97-101.

Nelson, B. H. and Anderson, R. (1998) Land and freshwater invertebrates. Pp 85-88. *In* Kaznowska, S. (ed.) *Coastal directory of the British Isles.* Region 4/17. JNCC, Peterborough.

Nelson, J. (1996) The Monarch *Danaus plexippus* (L.) influx into Britain and Ireland in October 1995. *Atropos* **1**: 5-10.

Newland, C. B. (l896) Egg parasites. *Entomologist's Rec. J. Var.* **8**: 135-136. (Hym., Lep.)

—— (l896) Ova attacked by ichneumons. *Entomologist's Rec. J. Var.* **8**: l83. (Hym., Lep.)

Newland, C. Bingham (1896) *Drymonia chaonia* and *Procris statices* in Co. Cork. *Entomologist's Rec. J. Var.* **8**: 114.

—— (1896) Captures at Mallow. *Entomologist's Rec. J. Var.* **8**: 189-190.

—— (1896) Egg parasites. *Entomologist's Rec. J. Var.* **8**: 145-146.

—— (1896) Ova attacked by ichneumons. *Entomologist's Rec. J. Var.* **8**: 183.

—— (1897) Result of Spring collecting and observations in Co. Cork. *Entomologist's Rec. J. Var.* **9**: 266.

—— (1897) *Macroglossa bombyliformis* in Co. Cork. *Entomologist's Rec. J. Var.* **9**: 266.

—— (1897) *Melitaea aurinia* in Ireland. *Entomologist's Rec. J. Var.* **9**: 183.

—— (1897) Assembling of *Saturnia pavonia*. *Entomologist's Rec. J. Var.* **9**: 260.

—— (1897) Pupa of *Trochilium apiforme* driven from its cocoon. *Entomologist's Rec. J. Var.* **9**: 260.

—— (1897) *Cleora lichenaria* two years in pupa. *Entomologist's Rec. J. Var.* **9**: 260.

—— (1898) *Sphinx convolvuli* in Co. Cork. *Entomologist's Rec. J. Var.* **10**: 279-280.

Newland, C. Bingham (1898) The hybernating stage of *Dryas paphia*. *Entomologist's Rec. J. Var.* **10**: 280.

Newland, D., Still, R. and Swash, A. (2013) *Britain's day-flying moths: a field guide to the day-flying moths of Britain and Ireland.* WildGuides, Princeton University Press.

—— (2019) *Britain's day-flying moths: a field guide to the day-flying moths of Britain and Ireland.* WildGuides, Princeton University Press.

Newland, D., Still, R., Swash, A. and Tomlinson, D. (2015) *Britain's butterflies: a field guide to the butterflies of Britain and Ireland.* Second edition. Butterfly Conservation, Princeton University Press.

Newman, E. (1864) Description of the larva of *Gonepteryx rhamni* (Brimstone). *Entomologist* **2**: 74-77.

—— (1864) Life-history of *Lithosia caniola*. *Entomologist* **2**: 123-125.

—— (1866) *Eupithecia constrictata* in Ireland. *Entomologist* **3**: 131.

—— (1866) *Lithosia caniola*. *Entomologist* **3**: 131.

—— (1867) *Lithosia complana* in Ireland. *Entomologist* **3**: 346.

—— (1869) Life-history of *Rhodaria sanguinalis*. *Entomologist* **4**: 228-229.

—— (1875) *Blennocampa pyri* (larvae), Belfast. *Entomologist* **8**: 284.

—— (1876) *Artia rubiginosa*, Larne, Co. Antrim. *Entomologist* **9**: 42-45.

Newman, L. W. (1913) (*Melitaea aurinia*). *Proceedings of the South London Entomological and Natural History Society* **1913-14**: 128.

—— (1913) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1913-14**: 129-130.

—— (1914) (*Hadena barrettii*). *Proceedings of the South London Entomological and Natural History Society* **1914-15**: 112.

—— (1914) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1914-15**: 134.

—— (1917) (*Chrysophanus dispar*). *Proceedings of the South London Entomological and Natural History Society* **1917-18**: 64.

—— (1918) (*Melitaea aurinia*). *Proceedings of the South London Entomological and Natural History Society* **1918-19**: 97-98.

—— (1918) (Noctuidae). *Proceedings of the South London Entomological and Natural History Society* **1918-19**: 99.

—— (1920) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1920-21**: 80.

—— (1929) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1929-30**: 87.

—— (1931) (*Argynnis paphia*). *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 73.

—— (1933) (*Maniola jurtina*). *Proceedings of the South London Entomological and Natural History Society* **1933-34**: 112.

—— (1935) (*Melitaea aurinia*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1935-36**: 39.

—— (1936) (*Melitaea aurinia*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1936-37**: 89.

Newman, L. W. (1950) *Euphydryas aurinea* in South-West Ireland. *Entomologist* **83**: 148.

Newton, J. (1950) Prolonged duration of the pupal stage in certain moths. *Entomologist's Rec. J. Var.* **62**: 49-50.

Ní Lamhna, E. (1980) *Distribution atlas of butterflies in Ireland*. An Foras Forbartha, Dublin.

Nicholson, C. (1935) The Noctuae of Ireland. *Entomologist* **68**: 241-242. (comment on Donovan, 1934)

—— (1935) *Danaus plexippus* L. in the British Isles. *Entomologist* **68**: 245-251, 269-273.

—— (1938) Further notes on *Danaus plexippus* L. in the British Isles. *Entomologist* **71**: 217-225.

Norris, D. (1989) Some moth notes from Tralee, Co. Kerry, Eire. *Bulletin of the Amateur Entomologists' Society* **48**: 242.

—— (1990) A note from Ireland. *Bulletin of the Amateur Entomologists' Society* **49**: 96.

—— (1991) Red Necked Footman in Tralee. *Bulletin of the Amateur Entomologists' Society* **50**: 263.

—— (1991) Moths in Nun's Wood, Tralee, Ireland. *Bulletin of the Amateur Entomologists' Society* **50**: 281-282. (erratum *Bulletin of the Amateur Entomologists' Society* **51**: 8 (1992))

Norton, W. (1937) (*Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1937-38**: 8.

O'Brien, M., Spillane, C., Meade, C. and Mullins, E. (2008) An insight into the impact of arable farming on Irish biodiversity: a scarcity of studies hinders a rigorous assessment. *Biology and Environment: Proceedings of the Royal Irish Academy* **108**B: 97-108.

O'Connor, J. P. (1981) A visit to Clonbrock, 1976. *Entomologist's Rec. J. Var.* **93**: 146-147. (Dillon Collection)

—— (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1987) Postscript. (Henry Heal (1920-1986) - microlepidopterist). *Ir. Nat. J.* **22**: 219.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history*. The Lilliput Press, Dublin.

—— (1999) A 1997 Irish record of the Oleander Hawk-moth (*Daphnis nerii* (L.)) (Lepidoptera: Sphingidae). *Ir. Nat. J.* **26** (1998): 55-56.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

—— (2007) Contributions towards a checklist of insects feeding on Irish trees. Part 1: Hymenoptera, Lepidoptera and Orthoptera. *Bulletin of the Irish Biogeographical Society* **31**: 197-267.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Bond, K. G. M. (2005) *Cacoecimorpha pronubana* (Hb.) (Lep.: Tortricidae) in a Dublin glasshouse. *Entomologist's Rec. J. Var.* **117**: 44.

O'Connor, J. P., Bowdrey, J. P., Redfern, M. and Higginbottom, T. (2008) Records of Irish galls (Fungi; Insecta: Coleoptera, Diptera, Hemiptera, Hymenoptera, Lepidoptera; Acarina: Eriophyidae) including eight species new to Ireland and one deletion from the Irish list. *Bulletin of the Irish Biogeographical Society* **32**: 40-61.

O'Connor, J. P. and Nash, R. (1982) Further records of insects (Dictyoptera, Lepidoptera, Coleoptera, Diptera) imported into Ireland. *Ir. Nat. J.* **20**: 393-395.

—— (1984) Insects imported into Ireland 6. Records of Orthoptera, Dermaptera, Lepidoptera and Coleoptera. *Ir. Nat. J.* **21**: 351-353.

O'Donnell, E. (2011) As good as it gets. *Atropos* **42**: 18-22. (includes *Mythimna l-album* new to Ireland)

—— (2012) Site guide: Cape Clear Island, West Cork, Ireland. *Atropos* **46**: 15-25.

O'Donnell, M. (2003) Blair's Shoulder-knot *Lithophane leautieri* in Co. Wicklow - a species new to Ireland. *Atropos* **19**: 69-70.

O'Donovan, J. E. (1946) Peacock Butterfly in January. *Ir. Nat. J.* **8**: 337.

O'Farrell, A. F. (1943) The Striped Hawk-Moth, *Celerio lineata livornica* Esp. in County Down. *Ir. Nat. J.* **8**: 112-113.

—— (1947) Lepidoptera in Northern Ireland, 1943-5. *Ir. Nat. J.* **9**: 76-77.

O'Flynn, H. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.

O'Grady, M. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.

O'Mahony, E. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.

—— (1934) *Porthesia similis* Fues. in Ireland. *Entomologist* **67**: 209-210.

—— (1934) An Irish record for Goldtail Moth, *Porthesia similis* Fues. *Ir. Nat. J.* **5**: 121.

—— (1934) *Porthesia similis* Fues. in Ireland. *Ir. Nat. J.* **5**: 208-210.

O'Meara, M. (1974) Passage of insects near Dunmore East, Co. Waterford in 1973. *Ir. Nat. J.* **18**: 126.

—— (1974) Occurrence of Convolvulus Hawk Moth (*Herse convolvuli* L.) in Co. Waterford in 1974. *Ir. Nat. J.* **18**: 202-203.

—— (2001) *The Lepidoptera of Waterford City & County.* Waterford Wildlife, Waterford.

O'Neill, B. (2011) Mercury rising. *Biodiversity Ireland* **Issue 8**: 8-9. (temperature and moths)

O'Neill, B., Bond, K., Tyner, A., Sheppard, R., Bryant, T., Chapman, J., Bell, J. and Donnelly, A. (2012) Climate change is advancing the phenology of moth species in Ireland. *Entomologia Experimentalis et Applicata* **143**: 74-88.

O'Rourke, F. (1942) (Irish records for Death's-Head Hawk-Moth, 1940). *Ir. Nat. J.* **8**: 9.

O'Sullivan, J. (2013) A second Irish record of *Chrysoclista linneella* (Clerck) (Lepidoptera: Agnoxenidae). *Ir. Nat. J.* **32**: 148-149.

O'Sullivan, M. (2003) A record of the Buff Footman *Eilema depressa* Esper (Lep.: Arctiidae) from Killarney, Co. Kerry. *Entomologist's Rec. J. Var.* **115**: 146-147.

—— (2004) The Burren - a brief summary of its butterflies in 2003. *Entomologist's Rec. J. Var.* **116**: 124-127.

—— (2013) From intrigue to obsession. *Atropos* **50**: 67-70. (Lep., Odon.: *Hemianax ephippiger*)

O'Sullivan, M. and Lavery, J. W. (1999) In memoriam: Raymond F. Haynes (1916-1997). *Bulletin of the Amateur Entomologists' Society* **58**: 65.

—— (2008) Eight days in the Burren (2007). *Entomologist's Rec. J. Var.* **120**: 107-117.

O'Sullivan, M. and Lavery, J. W. (2010) Some new moth records for Co. Limerick, Ireland. *Entomologist's Rec. J. Var.* **122**: 144-145.

O'Sullivan, M. J. (1990) Burren Lepidoptera. *Bulletin of the Amateur Entomologists' Society* **49**: 37-45.

—— (1990) Sweet Gale Moths at Glengarriff. *Bulletin of the Amateur Entomologists' Society* **49**: 52.

—— (2001) The Brown Hairstreak Butterfly (*Thecla betulae* L.), in Ireland: an examination of its historical and current status. *British Journal of Entomology and Natural History* **14**: 85-90.

Oldham, C. (1933) Painted Lady and Red Admiral on the Mullet Peninsula. *Ir. Nat. J.* **4**: 219.

Orr, H. L. (1900) Insect notes from County Antrim. *Ir. Nat.* **9**: 20.

—— (1903) Convolvulus Hawk-Moth near Belfast. *Ir. Nat.* **12**: 318.

Özbek, H. and Çalmaşur, Ö. (2010) Spotted Ash Looper, *Abraxas pantaria* (L.) (Lepidoptera: Geometridae), a new ash pest in Turkey. *Turkish Journal of Zoology* **34**: 351-358.

Page, A. (2012) British macromoths. *British Journal of Entomology and Natural History* **25**: 158. (Clare: *Odontognophos dumetata*; Cork: *Heliophobus reticulata*)

Palmer, J. A. J. (1928) Clouded Yellow Butterfly in County Dublin. *Ir. Nat. J.* **2**: 111.

—— (1933) Frequence of the Clouded Yellow. *Ir. Nat. J.* **2**: 219.

—— (1937) Butterflies on mountain top. *Ir. Nat. J.* **6**: 236.

Palmer, S. (2014) An introduction to the gelechiid moths of the British Isles. *Atropos* **53**: 2-14.

—— (2016) The gelechiid recording scheme - five years in. *British Journal of Entomology and Natural History* **29**: 156-162.

Palmer, S. and Palmer, C. (2013) News from the Recording Schemes. Gelechiid Recording Scheme. *Entomologist's Rec. J. Var.* **125**: 8-9.

—— (2014) News from the Recording Schemes. Gelechiid Recording Scheme. *Entomologist's Rec. J. Var.* **126**: 1-3. (*Hypatima rhomboidella*)

Parsons, C. Q. (1961) Irish county records (Lepidoptera). *Ir. Nat. J.* **13**: 214.

—— (1963) Irish county records-Lepidoptera. *Ir. Nat. J.* **14**: 101.

Parsons, M., Hearle, S., Noake, B., Prescott, T., Rosenthal, A. and Bourn, N. (2011) Moth conservation at Butterfly Conservation - ten years of progress. *Atropos* **43**: 55-72. (*Rheumaptera hastata*)

Parsons, M. S. (2001) The European status of the UK biodiversity action plan moths. *Entomologist's Rec. J. Var.* **113**: 49-62.

Parsons, M. S. and Davey, P. (2007) The rise of the Scarce Bordered Straw *Helicoverpa armigera* (Hübner) (Lep.: Noctuidae). *Entomologist's Rec. J. Var.* **119**: 185-192.

Parsons, M. S., Hoare, D., Davis, T. and Green, D. (2005) The distribution of the UK Biodiversity Action Plan priority moth species, 1999-2004. *Atropos* **25**: 5-20. (*Hemaris tityus*, *Schrankia taenialis*)

Parsons, R. E. (1951) Gynandromorph *Pieris napi*. *Entomologist* **84**: 70.

Partridge, C. E. (1893) Lepidoptera of Enniskillen. *Entomologist's mon. Mag.* **29**: 281-284.

—— (1895) Supplementary notes on the Lepidoptera of Enniskillen. *Entomologist's mon. Mag.* **31**: 24-25.

Partridge, C. E. (1895) Further captures of Lepidoptera at Enniskillen, Ireland. *Entomologist's mon. Mag.* **31**: 279.

—— (1897) The partial double-broodness of *Plusia festucae*. *Entomologist's Rec. J. Var.* **9**: 40.

Pasley, L. M. S. (1867) Capture of *Deilephila livornica* in Ireland. *Entomologist's mon. Mag.* **4**: 12.

Paterson, T. G. F. (1936) Convolvulus Hawk-moth in Co. Armagh. *Ir. Nat. J.* **6**: 25.

Paul, J. (1985) Confirmation of *Erebia epiphron* Knoch: Mountain Ringlet as Irish. *Entomologist's Rec. J. Var.* **97**: 63.

Pearson, D. H. (1896) Lepidoptera of Ireland. *Entomologist* **29**: 66.

—— (1898) Pupation of *Aglais urticae*. *Entomologist's Rec. J. Var.* **10**: 310.

Pease, T. H. O. (1875) *Sphinx convolvuli* in Dublin. *Entomologist* **8**: 224.

Pedgley, D. E. (1985) Windborne migration of *Heliothis armigera* (Hübner) (Lepidoptera: Noctuidae) to the British Isles. *Entomologist's Gazette* **36**: 15-20.

Peet, T. N. D. (1965) Lepidoptera in Ireland 1965. *Entomologist's Rec. J. Var.* **77**: 293.

Pelham-Clinton, E. C. (1976) Opostegidae. Pp 268-271. *In* Heath, J. (ed.) *The moths and butterflies of Great Britain and Ireland.* **1**. *Micropterigidae-Heliozelidae.* The Curwen Press Ltd/Blackwell Scientific Publications, London/Oxford.

—— (1981) New Irish localities for *Zygaena purpuralis* (Brünnich) (Lepidoptera: Zygaenidae). *Entomologist's Gazette* **32**: 258.

—— (1985) Tineidae. Pp 152-207. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1985) Choreutidae. Pp 389-399. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1985) Glyphipterigidae. Pp 400-407. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1986) Second generation of *Ectropis crepuscularia* (D. & S.). *Entomologist's Rec. J. Var.* **98**: 119-120.

Perkins, J. F. (1931) (Butterflies). *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 74.

—— (1932) (*Maniola jurtina*). *Proceedings of the South London Entomological and Natural History Society* **1932-33**: 112.

Peters, J. V. (1962) The butterflies of Northern Ireland. *Ir. Nat. J.* **14**: 21-32.

Phillips, R. A. (1894) The Hornet Moth (*Trochilium crabroniformis* Cl.) in Co. Cork. *Ir. Nat.* **3**: 223.

—— (1923) The Pearl-Bordered Fritillary in Ireland. *Ir. Nat.* **32**: 91-92.

Pickett, C. T. (1910) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 115.

Pickles, A. J. (2005) 2004 Annual Exhibition. British Macro-Lepidoptera. *British Journal of Entomology and Natural History* **18**: 175-183. (Hayward, R.: *Epirrhoe alternata*, *Mesapamea secalis*/*M. didyma*; Wedd, D.: Inis Meain)

Pickles, A. J. and Pickles, C. T. (1982) (Exhibited subspecies of Lepidoptera collected in Cos Clare and Kerry, August 1981). *Bulletin of the Amateur Entomologists' Society* **41**: 5.

—— (1984) (Exhibited Lepidoptera taken or bred in 1983 especially from the Burren, Co. Clare). *Bulletin of the Amateur Entomologists' Society* **43**: 5.

Pierce, F. N. and Beirne, B. P. (1938) The *genitalia of the British Rhopalocera and the larger moths.* Oundle, Northants.

Pitkin, L. M. (1984) Gelechiid moths of the genus *Mirificarma*. *Bulletin of the British Museum of Natural History* (Entomology) **48**: 1-70. (*M. mulinella* (Zeller))

—— (1988) The Holarctic genus *Teleiopsis*: host-plants, biogeography and cladistics (Lepidoptera: Gelechiidae). *Entomological Scandinavica* **19**: 143-191. (*T. diffinis* (Haworth))

Pittaway, A. R. (1983) An annotated checklist of the western Palaearctic Sphingidae (Lepidoptera). *Entomologist's Gazette* **34**: 67-85.

Plant, C. W. (2001) Editorial comment. *Entomologist's Rec. J. Var.* **113**: 254. (*Leptidea reali*)

—— (2014) *Tetramoera langmaidi* sp. nov. (Lep.: Tortricidae, Olethreutinae, Enarmoniini): a new species of probably Oriental tortricid moth from England. *Entomologist's Rec. J. Var.* **126**: 164-172. (may have originated in bamboo plants imported from Ireland)

—— (2018) A review of the spread of the Box Tree Moth *Cydalima perspectalis* (Walker) in Britain. *Entomologist's Rec. J. Var.* **130**: 280.

Plant, C. W., Poole, C., Salisbury, A. and Bird, S. (2019) The Box-tree Moth *Cydalima perspectalis* (Walker, 1859) in Britain: an overview of its spread and current status. *Entomologist's Rec. J. Var.* **131**: 122-147.

Pollard, E. and Yates, T. J. (1993) Population fluctuations of the Holly Blue butterfly, *Celastrina argiolus* (L.) (Lepidoptera: Lycaenidae). *Entomologist's Gazette* **44**: 3-9.

Pollock, J. H. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 156.

Porritt, G. T. (1923) (*Diacrisia mendica*). *Entomologist's mon. Mag.* **59**: 40 & *Entomologist* **56**: 22.

Porter, E. (1894) *Acentropus niveus* abundant in Ireland. *Entomologist* **27**: 273.

—— (1895) (*Hepialus humuli* etc in Ireland). *Entomologist's Rec. J. Var.* **6**: 238.

Porter, J. (2001) Range expansion in the Light Brown Apple-moth *Epiphyas postvittana* (Walk.). *Atropos* **14**: 42-46. (first record from Co. Wexford)

—— (2010) *The colour identification guide to the caterpillars of the British Isles (Macrolepidoptera).* Second edition. Viking, London. 275pp.

Porter, K. (1980) A quantitative treatment of clinal variation in *Coenonympha tullia* (Müller) (Lep., Satyridae). *Entomologist's mon. Mag.* **116**: 71-82.

Porter, K. and Young, R. (1978) Western Ireland - June 1977. *Bulletin of the Amateur Entomologists' Society* **37**: 65-68.

Porter, W. E. H. (1894) Ireland. *Entomologist's Rec. J. Var.* **5**: 204.

Praed, C. W. Mackworth (1946) *Pontia daplidice* in Kerry. *Entomologist* **79**: 3.

Praeger, R. L. (1896) The Field Clubs in Cavan. *Ir. Nat.* **5**: 193-199.

—— (1921) Behaviour of a Fritillary. *Ir. Nat.* **30**: 97-98.

—— (1946) Abundance of Autumn butterflies. *Ir. Nat. J.* **8**: 338.

Pratt, C. (1986) A history and investigation into the fluctuations of *Polygonia c-album* L.: the Comma Butterfly. *Entomologist's Rec. J. Var.* **98**: 197-203, 244-250.

Prout, L. B. (1896) Varieties of *Melanippe fluctuata*. *Entomologist's Rec. J. Var.* **8**: 131-133.

—— (1897) On the Irish *Tephrosia biundularia*. *Entomologist* **30**: 140.

—— (1897) The Genus *Oporabia*. *Entomologist's Rec. J. Var.* **9**: 282-286.

—— (1903) The British species of the Genus *Oporabia*. Steph. *Entomologist's mon. Mag.* **39**: 29-30.

—— (1904) Notes on *Oporobia autumnata*, Bork. *Entomologist's mon. Mag.* **40**: 235-236.

Pullin, A. S. (1988) Environmental cues and variable voltinism patterns in *Aglais urticae* (L.) (Lepidoptera: Nymphalidae). *Entomologist's Gazette* **39**: 101-112.

Purefoy, E. Bagwell (1896) *Gonepteryx rhamni* in Ireland. *Entomologist* **29**: 363-364.

—— (1902) *Gonepteryx rhamni* and *cleopatra* in Ireland. *Entomologist* **35**: 301-304.

—— (1917) Some notes on the life history of *Gonepteryx cleopatra*. *Entomologist* **50**: 3-5.

—— (1921) The Irish colony of *C. dispar* var. *rutlis*. A second brood. *Entomologist's Rec. J. Var.* **33**: 178.

Purefoy, E. G. (1949) *Vanessa atalanta* in hibernation. *Entomologist* **82**: 238.

Ragonot, E. L. (1885) Revision of the British species of Phycitidae and Galleridae. *Entomologist's mon. Mag.* **22**: 17-32.

Randle, Z. (2010) Moths Count, past, present and future. *Antenna* **34**: 64-68. (*Diloba caeruleocephala*, *Lithophane hepatica*)

—— (2016) Atlas approaches. *Entomologist's Rec. J. Var.* **128**: 153-155.

Randle, Z., Evans-Hill, L. J., Parsons, M. S., Tyner, A., Bourn, N. A. D., Davis, T., Dennis, E. B., O'Donnell, M., Prescott, T., Tordoff, G. M. and Fox, R. (2019) *Atlas of Britain & Ireland's Larger Moths*. Pisces Publications, NatureBureau Ltd., Newbury.

Randle, Z. and Fox, R. (2008) An update on the National Moth Recording Scheme. *Entomologist's Gazette* **59**: 105-107.

—— (2008) Announcements. An update on the National Moth Recording Scheme. *British Journal of Entomology and Natural History* **21**: 54-56.

—— (2008) An update on the National Moth Recording Scheme. *Bulletin of the Amateur Entomologists' Society* **67**: 75-77. (Northern Ireland)

Randle, Z., Fox, R., Hill, L., Anders, S., McLellan, L. and Parsons, M. (2010) Moths Count: outcomes and outlook. *Atropos* **41**: 26-37.

Randle, Z., Hill, L. and Fox, R. (2011) Moths Count milestones. *Entomologist's Rec. J. Var.* **123**: 206-211. (Northern Ireland)

—— (2014) Moths count and the National Moth Recording Scheme: an update. *Antenna* **38**: 32-34. (distribution of Silver Y in Northern Ireland)

Rankin, N. M. and Rankin, D. H. (1939) Additions to the Lepidoptera of Co. Down. *Ir. Nat. J.* **7**: 188.

—— (1942) (The 1941 Clouded Yellow immigration). *Ir. Nat. J.* **8**: 10.

Rathborne, H. B. (1918) *Gonepteryx rhamni* in Co. Fermanagh. *Ir. Nat.* **27**: 173.

Rear, D. (1966) Lepidoptera seen on Blasket Is. and adjoining mainland, 1965. *Ir. Nat. J.* **15**: 182.

Redway, D. B. (1973) A further record of *Amathes alpicola* (Zetterstedt) (Lep., Noctuidae) in Ireland. *Entomologist's Gazette* **24**: 296.

Redway, D. B. (1981) Some comments on the reported occurrence of *Erebia epiphron* (Knoch) (Lepidoptera: Satyridae) in Ireland during the nineteenth century. *Entomologist's Gazette* **32**: 157-159.

Redway, D. B. and Heath, J. (1973) *Amathes alpicola* (Zetterstedt) (Lep., Noctuidae) in Ireland and on the Pennines. *Entomologist's Gazette* **24**: 6, plate 1.

Regan, E. (2009) *Irish butterflies and insects*. Appletree Press, Belfast.

—— (2011) Butterflies. *Biodiversity Ireland* **Issue 8**: 11. (Holly Blue, Comma, Pearl-bordered Fritillary)

—— (2012) Biodiversity tales. Butterflies. *Biodiversity Ireland* **Issue 10**: 14.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Regan, E. C. and Gleeson, E. (2013) The Painted Lady (*Vanessa cardui* L.) migration of 2009 as recorded by the Irish Butterfly Monitoring Scheme and an investigation into the origin of the migration. *Ir. Nat. J.* **32**: 108-113.

Regan, E. C., Lovatt, J. K. and Wilson, C. J. (2011) Natural fluctuation in the numbers of the Holly Blue Butterfly (*Celastrina argiolus* (L.)) (Lepidoptera: Rhopalocera) in Ireland. *Ir. Nat. J.* **31** (2010): 123-125.

Regan, E. C. and Meagher, O. (2011) The distribution and habitat of the Pearl-bordered Fritillary butterfly *Boloria euphrosyne* (Linnaeus) (Lepidoptera: Nymphalidae) in Ireland. *Bulletin of the Irish Biogeographical Society* **35**: 150-161.

Regan, E. C., Nelson, B., Aldwell, B., Bertrand, C., Bond, K., Harding, J., Nash, D., Nixon, D. and Wilson, C. J. (2010) *Ireland Red List No. 4 - Butterflies*. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reid, C. A. M. and Leonard, K. (2015) *Diplapion confluens* (Kirby) (Coleoptera: Brentidae), new for Northern Ireland, at Lighthouse Island, County Down, with notes on other insects at this locality. *Ir. Nat. J.* **34**: 135-136. (Col., Lep.)

Reid, W. (1958) Collecting notes 1957. *Entomologist's Rec. J. Var.* **70**: 43-46.

—— (1958) Collecting notes 1958. *Entomologist's Rec. J. Var.* **70**: 290-294.

Renouf, L. P. W. (1934) *Colias croceus* Fc. (*edusa* Fb.), *Nymphalis io* and *Epeira diadema* in Co. Cork. *Entomologist* **67**: 258.

Revell, R. J. (1979) Nolidae. Pp 112-120. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **9**. *Sphingidae-Noctuidae Noctuinae and Hadeninae.* The Curwen Press, London.

Reynell, H. E. (1894) *Bupalus piniaria* and *Eupithecia togata* in Co. Meath. *Ir. Nat.* **3**: 176.

—— (1899) *Colias edusa* in Co.Westmeath. *Ir. Nat.* **8**: 228.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Rhynehart, J. G. (1931) Further Irish records for Convolvulus Hawk Moth, 1930. *Ir. Nat. J.* **3**: 156.

Richards, O. W. and Thomson, M. A. (1932) A contribution to the study of the genera *Ephestia*, Gn. (including *Strymax*, Dyar) and *Plodia*, Gn. (Lepidoptera, Phycitidae) with notes on parasites of the larvae. *Transactions of the Entomological Society of London* **80**: 169-250.

Richardson, A. (1942) (*Hadena capsophila*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1942-43**: 34.

—— (1946) Is *Hypena obsitalis* a migrant? *Entomologist* **79**: 22-23.

—— (1951) *Hydraecia* species from various localities. *Entomologist's Rec. J. Var.* **63**: 304.

—— (1952) Lepidoptera from the Burren of Clare, W. Ireland. *Entomologist's Gazette* **3**: 73-74.

—— (1952) New varieties of British Lepidoptera. *Entomologist's Rec. J. Var.* **64**: 269-273, plate XI.

—— (1969) *Rhyacia simulans* in Ireland. *Entomologist's Rec. J. Var.* **81**: 106.

Riley, A. M. (1993) Important Lepidoptera records from the Rothamsted Insect Survey national light-trap network. *Entomologist's Gazette* **44**: 173-177.

—— (1995) Further unusual records of Lepidoptera from the Rothamsted Insect Survey national light-trap network. *Entomologist's Gazette* **46**: 195-198.

—— (2007) *British and Irish butterflies. The complete identification, field and site guide to species, sub-species and forms.* Brambleby Books, Luton. 352pp.

Riley, A. M. and Prior, G. (2003) *British and Irish pug moths*. Harley Books, Colchester. 264pp.

Riley, N. D. (1928) A swarm of *Melitaea aurinia* larvae. *Entomologist* **61**: 210.

—— (1928) *Pachys betularia* var. *doubledayaria* in Ireland. *Entomologist* **61**: 212.

—— (1929) The re-introduction into Britain of *Chrysophenus dispar*, Haw. *Entomologist* **62**: 169-171, plate IV.

—— (1931) *Sphinx convolvuli*. *Entomologist* **64**: 17.

—— (1935) Yellow *Pieris napi*. *Entomologist* **68**: 78.

—— (1945) *Celerio livornica* in 1945. *Entomologist* **78**: 125-126.

—— (1945) Early dates for Lepidoptera in 1945. *Entomologist* **78**: 108.

—— (1948) The Rothschild-Cockayne-Kettlewell Collection of British Lepidoptera. *Entomologist* **81**: 145-146.

—— (1950) The Rothschild-Cockayne-Kettlewell Collection of British Lepidoptera. *Entomologist* **83**: 19-20.

—— (1952) Immigration of *Vanessa cardui* in March. *Entomologist* **85**: 95-96.

Rippey, I. (1978) Lunar Yellow Underwing *Euschesis orbona* Hufner (Lepidoptera, Noctuidae) confirmed as an Irish species. *Ir. Nat. J.* **19**: 170.

—— (1984) The Purple Hairstreak and Brimstone Butterflies in Northern Ireland, 1983. *Entomologist's Gazette* **35**: 5.

—— (1986) The butterflies of Northern Ireland. *Ir. Nat. J.* **22**: 133-140.

—— (1986) Marsh fritillary in Northern Ireland. *Bulletin of the Amateur Entomologists' Society* **45**: 115-116.

—— (1989) Butterflies (Lepidoptera) in Northern Ireland 1986-1987: additional records and corrigenda. *Ir. Nat. J.* **22**: 27-30.

Rippey, I. (1989) *Drymonia ruficornis* Hufnagel (Lepidoptera: Notodontidae) in Fermanagh. *Ir. Nat. J.* **23**: 153-154.

—— (1991) Records of moths (Lepidoptera) in Northern Ireland, 1990. *Ir. Nat. J.* **23**: 461-463.

—— (2002) Yellow-winged Darter *Sympetrum flaveolum* L. and Red-veined Darter *Sympetrum fonscolombei* Selys (Odonata: Libellulidae) in Northern Ireland, 1995 and 1998. *Ir. Nat. J.* **26** (2001): 382-383. (*Colias croceus*)

—— (2002) Oleander hawk-moth *Daphnis nerii* (L.) (Lepidoptera: Sphingidae) in Northern Ireland. *Ir. Nat. J.* **27**: 121.

—— (2017) Obituary Bernard Francis Skinner 28 July 1939 to 7 February 2017. *Entomologist's Rec. J. Var.* **129**: 107. (Irish connection)

Robbins, J. (2004) A Welsh week: Carmarthenshire galls. *Cecidology* **19**: 52-55. (*Ectoedemia minimella*)

Robertson, T. S. (1969) Homoeosis and related phenomena in the small copper butterfly, *Lycaena phlaeas* L. *Proceedings and Transactions of the British Entomological and Natural History Society* **2**: 76-102.

—— (1995) Geographical variation in the blue (interference) coloration of *Polyommatus icarus* (Rottemburg) (Lepidoptera: Lycaenidae) in the British Isles. *Entomologist's Gazette* **46**: 183-187.

Robinson, G. (1877) (*Colias edusa* and *Thecla rubi*). *Proceedings of the Belfast Naturalists' Field Club* **I**: 270.

Robinson, G. S. (1979) Clothes-moths of the *Tinea pellionella* complex: a revision of the world's species (Lepidoptera Tineidae). *Bulletin of the British Museum of Natural History* (Entomology) **38**: 57-128.

Robinson, H. S. (1951) Burren - 1950 narrative. *Entomologist's Gazette* **2**: 89-94, plates I-II.

Ronayne, C. (2008) The 'Connogh' and the 'Arglogher': 17th-century anecdotes on natural history and folk-medicine from Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **32**: 34-39. (*Deilephila elpenor*)

Russ, P. H. (1881) Plusiidae in Co. Sligo. *Entomologist* **14**: 259.

—— (1882) *Acherontia atropos* in Co. Sligo. *Entomologist* **15**: 261.

—— (1883) Notes of the Season of 1882 in Co. Sligo. *Entomologist* **16**: 132-134.

—— (1883) Lepidoptera in Sligo. *Entomologist* **16**: 256-257.

—— (1884) *Epunda lutulenta* and Vars. *Entomologist* **17**: 143.

—— (1886) Lepidoptera in North-West Ireland. *Entomologist* **19**: 105-106.

—— (1890) Notes of the Season (Lepidoptera) - Sligo. *Entomologist's Rec. J. Var.* **1**: 178.

—— (1890) The differentiation of *Cidaria russata* (*truncata*) and *immanata*. *Entomologist's Rec. J. Var.* **1**: 274.

—— (1890) *Lycaena alexis* with a row of black spots on margin of hind wings. *Entomologist's Rec. J. Var.* **1**: 282.

—— (1891) Sligo. *Entomologist's Rec. J. Var.* **2**: 135.

—— (1891) *Agrotis pyrophila* at Sligo. *Entomologist's Rec. J. Var.* **2**: 212.

—— (1891) *Eupithecia dodoneata* at Sligo. *Entomologist's Rec. J. Var.* **2**: 257.

—— (1891) Culleenamore. *Entomologist's Rec. J. Var.* **2**: 290.

—— (1891) The Eupitheciae in County Sligo. *Entomologist's Rec. J. Var.* **2**: 298.

Russ, P. H. (1892) Sligo. *Entomologist's Rec. J. Var.* **3**: 291-292.

Russell, S. G. Castle (1928) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1928-29**: 109.

—— (1938) (*Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1928-29**: 29.

—— (1944) The Whitehouse Collection. *Entomologist's Rec. J. Var.* **56**: 33-35.

Russell, S. G. Castle and Turner, H. J. (1943) Records and full descriptions of varieties and aberrations exhibited at the annual exhibition of the South London Entomological and Natural History Society (October 1942). *Entomologist's Rec. J. Var.* **55**: (Supplement): 1-14.

Russo, L., Memmott, J., Montoya, D., Shea, K. and Buckley, Y. M. (2014) Patterns of introduced species interactions affect multiple aspects of network structure in plant-pollinator communities. *Ecology* **95**: 2953-2963.

Rutherford, C. I. (1983) A check-list of breeding British moths (Macrolepidoptera). *Entomologist's Rec. J. Var.* **95**: 58-64.

Ruttledge, R. F. (1948) Clouded Yellow Butterflies in Ireland. *Ir. Nat. J.* **9**: 130-131.

Ruttledge, W. (1916) Some uncommon Lepidoptera taken in South Mayo. *Ir. Nat.* **25**: 139.

—— (1919) *Argynnis aglaia* in South Mayo. *Ir. Nat.* **28**: 72.

—— (1920) Lepidoptera from Co. Mayo. *Ir. Nat.* **29**: 106.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Sadler, E. A. (1972) The Burren, May 1971. *Entomologist's Rec. J. Var.* **84**: 12-18, 44-50.

Salmon, M. A. (2000) *The Aurelian Legacy: British butterflies and their collectors*. Harley Books, Colchester. 432pp.

Salwey, R. E. (1866) Is *Deiopeia pulchella* permanently established in Britain? *Entomologist* **19**: 169-172.

Salt, D. T. and Whittaker, J. B. (1998) *Insects on dock plants. Naturalists' Handbooks* **26**. The Richmond Publishing Co. Ltd, Slough. (distribution map for the small copper butterfly)

Salter, M. (1994) Hunting Marsh Fritillaries - the lazy way. *Bulletin of the Amateur Entomologists' Society* **53**: 104-106.

—— (2000) An extension of the Irish range of the Brown Hairstreak *Thecla betulae* (L.) (Lepidoptera: Lycaenidae). *Ir. Nat. J.* **26** (1999): 203.

—— (2002) Butterflies in east Connacht. *Atropos* **17**: 14-17.

Salter, M. G. (1992) *Eurodryas aurinia* (Rottemburg) (Lepidoptera: Nymphalidae) in Ireland. *Entomologist's Gazette* **43**: 124.

Salter, M. J. (2009) A clearwing encountered in Ireland. *Atropos* **37**: 60.

Salz, H. Bytinski- (1939) New and little known forms of *Hepialus* mostly from Great Britain. *Entomologist's Rec. J. Var.* **51**: 81-85, plate VII.

—— (1939) On *Rhyacia festiva*, Schiff., ssp. *conflua*, Tr., and ssp. *thulei*, Stgr. *Entomologist's Rec. J. Var.* **51**: 29-37, plate III.

Sandford, H. C. (1885) Lepidoptera from S. Ireland. *Entomologist* **18**: 321-232.

—— (1885) Lepidoptera in County Cork. *Entomologist* **18**: 123.

Sandford, H. C. (1885) Notes from Cork. *Entomologist* **18**: 192-193.

Sang, J. (1883) Captures of Lepidoptera at Howth. *Entomologist's mon. Mag.* **20**: 166-167.

Sankey-Barker, J. P. (1976) The Clouded Yellow (*Colias croceus* Geoffroy) in Ireland in 1975. *Entomologist's Rec. J. Var.* **88**: 56.

Sankey-Barker, P. B. (1983) The Clouded Yellow: *Colias croceus* Geoff. near Killarney in 1982. *Entomologist's Rec. J. Var.* **95**: 36.

Sattler, K. (1980) *Teleiodes wagae* (Nowicki, 1860) new to the British list (Lepidoptera: Gelechiidae). *Entomologist's Gazette* **31**: 235-245.

Saundby, R. (1970) *Lasiocampa quercus* (Linnaeus) (Lep., Lasiocampidae) in the Aran Islands. *Entomologist's Gazette* **21**: 132.

Savage, A. A. (1954) Collecting Lepidoptera in Eire 26/7/53 to 11/8/53. *Entomologist's Gazette* **5**: 105-108.

Scannell, M. J. P. (1995) 30th Aer Lingus Young Scientists' Exhibition. *Ir. Nat. J.* **25**: 37. (*Coleophora pyrrhulipennella* Zeller)

Schaffers, J. (2009) Reconstruction of the origin of *Antigastra catalaunalis*, new moth for the Dutch fauna (Lepidoptera: Crambidae). *Entomologische Berichten* **69**: 36-45.

Schoorl, J. W., van Nieukerken, E. J. and Wilkinson, C. (1985) The *Stigmella oxyacanthella* species-group in Europe (Nepticulidae: Lepidoptera). *Systematic Entomology* **10**: 65-103.

Scott, D. A. (2003) Reports from coastal stations - 2002. Dursey Island, Co. Cork. *Atropos* **18**: 66-69.

—— (2004) Reports from coastal stations - 2003. Dursey Island, Co. Cork. *Atropos* **21**: 69-70.

—— (2005) Reports from coastal stations - 2004. Dursey Island, Co. Cork. *Atropos* **24**: 75-76.

—— (2006) Report from coastal stations - 2005. Dursey Island, Co. Cork. *Atropos* **27**: 75.

—— (2007) Reports from coastal stations - 2006. Dursey Island, Co. Cork. *Atropos* **30**: 85-86.

—— (2008) Reports from coastal stations: Dursey Island, Co Cork. *Atropos* **33**: 76. (migrants)

—— (2011) Reports from coastal stations - 2010. Dursey Island, Co. Cork. *Atropos* **42**: 71.

—— (2012) Dursey Island, Co. Cork. Reports from coastal stations - 2011. *Atropos* **45**: 78-79. (Lep., Odon.)

—— (2013) Dursey Island, Co. Cork. Reports from coastal stations - 2012. *Atropos* **48**: 72-73.

—— (2014) Dursey Island, Co. Cork. Reports from coastal stations - 2013. *Atropos* **51**: 85. (Lep., Odon.: *Aeshna juncea*)

Scott, G. C. (1931) Records for Death's-Head Hawk Moth. 1930. *Ir. Nat. J.* **3**: 156.

—— (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.

Scott, J. A. (1896) Death's Head Moth in Dublin. *Ir. Nat.* **5**: 87.

Scully, R. (1929) Clouded Yellow and other butterflies in County Cork. *Ir. Nat. J.* **2**: 162.

—— (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 157.

Sefton, T. W. (1935) *Acherontia atropos* L. in Co. Antrim. *Ir. Nat. J.* **5**: 231.

Shackleton, J. (1977) *Ectoedemia intimella* Zeller and *E. subimaculella* (Haworth): two species of Lepidoptera (Nepticulidae) new to Ireland. *Ir. Nat. J.* **19**: 98.

Shaffer, M. (1971) An historical review of the British species of *Capperia* Tutt. (Lep., Pterophoridae: Platyptiliinae), with lectotype designations. *Entomologist's Gazette* **22**: 205-225.

Shaw, M. R. (2007) The species of *Cotesia* Cameron (Hymenoptera: Braconidae: Microgastrinae) parasitising Lycaenidae (Lepidoptera) in Britain. *British Journal of Entomology and Natural History* **20**: 255-267. (*C. inducta* reported from larvae of *Celastrina argiolus*)

Shea, T. (1943) A Winter butterfly. *Ir. Nat. J.* **8**: 82.

Sheehy Skeffington, M. and Hall, K. (2011) The ecology, distribution and invasiveness of *Gunnera* L. species in Connemara, western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 157-175. (Fox Moth *Macrothylacia rubi*)

Sheehy Skeffington, M., Moran, J., O'Connor, Á., Regan, E., Coxon, C. E., Scott, N. E. and Gormally, M. (2006) Turloughs - Ireland's unique wetland. *Biological Conservation* **133**: 265-290.

Sheldon, W. G. (1916) *Bankia argentula* in Wicken Fen. *Entomologist* **49**: 65-66.

—— (1921) *Oxigrapha literana*, L.: its life-cycle, distribution and variation. *Entomologist* **54**: 129-135.

—— (1923) *Peronea hastiana* L. its distribution, habits, life-cycle and variation. *Entomologist* **56**: 75-81, 221-226.

—— (1925) The destruction of British butterflies: a suggested remedy. *Entomologist* **58**: 105-112.

—— (1928) Immigrant Lepidoptera in North-West Ireland. *Entomologist* **61**: 235.

—— (1929) *Epiblema crenana* Hb. in Ireland, and a note on its British forms. *Entomologist* **62**: 241-242.

—— (1930) *Dysstroma truncata* Hufn. and its form or subspecies *D. concinnata* Stephs.: an inquiry. *Entomologist* **63**: 259.

—— (1930-31) Notes on the nomenclature and variation of British species of the *Peronea* Group of the Tortricidae. *Entomologist* **63**: 148-151, 175-178, 242-246, 273-277. **64**: 30-34, 124-127.

—— (1931) *Dysstroma truncata*, Form *concinnata*, Stephs. or *Dysstroma concinnata*, Stephs., valid species: which is it? *Entomologist* **64**: 193-196, 224-226, 245-247.

—— (1934) *Argyrotoxa bergmanniana* L. Form *luteana* n. f. *Entomologist* **67**: 238.

—— (1935) The variation of *Eucosma solandriana* L., *E. brunnichana* L. (=*sinuana* Schiffermuller and Hubner) and *E. piceana* Haw. (=*semifuscana* Stephs.) (Lep. Tortricidae). *Entomologist* **68**: 228-233.

Shepherd, L. (1936) Yellow *Pieris napi*: a breeding experiment. *Entomologist* **69**: 61-63.

—— (1942) Breeding experiments with the Irish yellow race of *Pieris napi* (Lep. Pieridae). *Entomologist* **75**: 233-235.

Shield, R. (1856) Coleophors of the thistle. *Entomologist's Weekly Intelligence* **1**: 109-110.

Showler, A. J. (1956) Some further records of *Sterrha rusticata* Schiff. *Entomologist's Rec. J. Var.* **68**: 64-65.

Simonsen, T. J. and Huemer, P. (2014) Phylogeography of *Hepialus humuli* (L.) (Lepidoptera: Hepialidae) in Europe: short distance vs. large scale postglacial expansions from multiple Alpine refugia and taxonomic implications. *Insect Systematics & Evolution* **45**: 209-250. (British Isles)

Simpson, T. and Young, M. (2019) Obituary. Michael Withington Harper 1 February 1936-18 September 2018. *Entomologist's Rec. J. Var.* **131**: 49-51. (*Nematopogon magna*, *Agonopterix astrantiae*)

Sinclair, F. W. (1879) Notes on Irish Lepidoptera. *Scientific Proceedings of the Royal Dublin Society* **2**: 237-242.

Sinclair, W. (1894) Lepidoptera at Strabane. *Ir. Nat.* **3**: 45.

Skelton, P. (1961) A curious production of nature observed near Monaghan, in the years 1737-40. *Ir. Nat. J.* **13**: 231-238. (caterpillars)

Skinner, B. (1982) The history of *Euchromius ocellea* (Haworth) (Lep: Pyralidae) in Britain. *Entomologist's Rec. J. Var.* **94**: 139-140.

—— (1985) Cossidae. Pp 69-74. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1990) *Plusia putnami gracilis* Lempke and *Agrotis ripae* Hb. (Lep.: Noctuidae) in Ireland. *Entomologist's Rec. J. Var.* **102**: 147-148.

—— (1996) Exhibition report for 1995 (8th October). *Bulletin of the Amateur Entomologists' Society* **55**: 158-159. (*Entephria flavicinctata*)

—— (2008) My best day. *Atropos* **35**: 52-53. (*Camptogramma bilineata*)

—— (2010) *Colour identification guide to moths of the British Isles*. Third revised edition. Apollo, Stenstrup. 325pp.

Skinner, B. and Collins, G. A. (2000) The immigration of Lepidoptera to the British Isles in 1998. *Entomologist's Rec. J. Var.* **112**: 233-251.

—— (2002) The immigration of Lepidoptera to the British Isles in 1999. *Entomologist's Rec. J. Var.* **114**: 1-18.

—— (2004) The immigration of Lepidoptera to the British Isles in 2000. *Entomologist's Rec. J. Var.* **116**: 1-24.

Skinner, B. and Parsons, M. (1996) The immigration of Lepidoptera to the British Isles in 1991. *Entomologist's Rec. J. Var.* **108**: 151-167.

—— (1996) The immigration of Lepidoptera to the British Isles in 1992. *Entomologist's Rec. J. Var.* **108**: 233-256.

—— (1997) The immigration of Lepidoptera to the British Isles in 1993. *Entomologist's Rec. J. Var.* **109**: 217-226.

—— (1998) The immigration of Lepidoptera to the British Isles in 1994. *Entomologist's Rec. J. Var.* **110**: 1-19.

—— (1998) The immigration of Lepidoptera to the British Isles in 1995. *Entomologist's Rec. J. Var.* **110**: 197-227.

—— (1999) The immigration of Lepidoptera to the British Isles in 1996. *Entomologist's Rec. J. Var.* **111**: 153-183.

—— (2000) The immigration of Lepidoptera to the British Isles in 1997. *Entomologist's Rec. J. Var.* **112**: 49-73.

Skinner, B. F. (1975) *Eublemma ostrina* Hb. and *Colias croceus* Geoff in Ireland in 1975. *Entomologist's Rec. J. Var.* **87**: 277.

—— (1984) 1983 Annual Exhibition. British Macrolepidoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **17**: 5-8. (p. 7 Pickles, A. J. & C. T.: Irish specialities from the Burren)

—— (1986) 1985 Annual Exhibition. British Macrolepidoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **19**: 45-48. (Myers, A. A. : male *Agrotis crassa* Hb, first Irish record)

—— (1988) 1987 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **1**: 22-26. (Pickles, A. J. and C. T.: Irish race of *Tethea or* (D. and S.))

—— (1990) 1989 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **3**: 66-69. (Wedd, D.: species from the Burren)

Skinner, B. F. and Chatelain, R. G. (1966) The Green, the Grey and the Brown. *Entomologist's Rec. J. Var.* **78**: 251-253.

Smart, H. D. (1921) (*Pieris napi*). *Entomologist's mon. Mag.* **58**: 44 & *Entomologist* **54**: 104.

—— (1923) (*Pieris napi*). *Entomologist's mon. Mag.* **59**: 40.

Smiddy, P. (1985) Some migrant Lepidoptera records, 1979-83. *Ir. Nat. J.* **21**: 464.

—— (2013) Colonies of the Spindle Ermine Moth (*Yponomeuta cagnagella* (Hübner)) (Lepidoptera: Ypononmeutidae) in Co. Cork. *Ir. Nat. J.* **32**: 151-152.

Smith, P. S. (1952) *Oressigena* (nomen nudum). *Entomologist's Rec. J. Var.* **64**: 354.

Smith, P. Siviter-. (1932) Notes from the Stratford-on-Avon Area, etc. *Entomologist's Rec. J. Var.* **44**: 160-161.

—— (1935) (*Lycaena phlaeas*). *Entomologist* **68**: 47.

—— (1942) Notes on variation from the Worthing Museum. *Entomologist's Rec. J. Var.* **54**: 141-142.

—— (1947) (*Lycaena phlaeas*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 42.

Smith, W. Rait (1924) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1924-25**: 124.

—— (1930) The C. F. Johnson Collection. *Entomologist* **63**: 90-93.

—— (1931) (*Leptidea sinapis* Var.). *Proceedings of the South London Entomological and Natural History Society* **1931-32**: 92.

—— (1937) The Massey Collection. *Entomologist* **70**: 152-159.

—— (1938) The Bright Collection. *Entomologist* **71**: 187-190.

—— (1938) The Brocklehurst Collection. *Entomologist* **71**: 92-95.

—— (1939) The Bouck Collection Sale. *Entomologist* **72**: 16-20.

—— (1939) The Hanbury Collection Sale. *Entomologist* **72**: 89-93.

—— (1944) Sale of the Whitehouse Collection: second portion. *Entomologist* **77**: 93-96.

—— (1944) Sale of the Whitehouse Collection: third portion. *Entomologist* **77**: 142-144.

—— (1945) The Sheldon Collection Sale. *Entomologist* **78**: 12-13.

—— (1946) Sale of the Willoughby-Ellis and other collections. *Entomologist* **79**: 64-65.

—— (1947) Sale of the Crabtree Collection (final portion). *Entomologist* **80**: 151-152.

Smyth, F. and Nash, D. W. (2009) Overwintering of the Red Admiral Butterfly (*Vanessa atalanta* (L.)) on Howth Peninsula, Co. Dublin. *Ir. Nat. J.* **29** (2008): 81-86.

Snell, R. N. (1931) *Pyrameis virginiensis* (*hunteri*) in Killarney. *Entomologist* **64**: 76.

Sokoloff, P. A. (1979) The voltinism of *Teleiopsis diffinis* (Haw.) (Lep: Gelechiidae). *Entomologist's Rec. J. Var.* **91**: 329-330.

—— (1985) An introduction to the Gelechiidae. *Proceedings and Transactions of the British Entomological and Natural History Society* **18**: 99-106. (*Teleiodes wagae* (Nowicki))

Sokoloff, P. A. and Bradford, E. (1993) The British species of *Monochroa*, *Chrysoesthia*, *Ptocheuusa* and *Sitotroga* (Lepidoptera: Gelechiidae). *British Journal of Entomology and Natural History* **6**: 37-44, plate 1.

Sokoloff, P. A. and Bradford, E. S. (1990) The British species of *Metzneria*, *Paltodora*, *Isophrictis*, *Apodia*, *Eulamprotes* and *Argolamprotes* (Lepidoptera: Gelechiidae). *British Journal of Entomology and Natural History* **3**: 23-28, plate II.

South, R. (1887) Notes on the Genus *Lycaena*. *Entomologist* **20**: 73-85, plate 2.

—— (1891) *Tortrix donelana*, Carpenter. *Entomologist* **24**: 253-256.

—— (1892) Notes on British Lepidoptera. *Entomologist* **25**: 134-138.

—— (1894) Aberration of *Thecla rubi*. *Entomologist* **27**: 17.

—— (1905) (*Boarmia cinctaria*). *Proceedings of the South London Entomological and Natural History Society* **1905-06**: 49.

—— (1906) Notes on some forms of *Aplecta nebulosa* in Britain. *Entomologist* **39**: 75-76, plate V.

—— (1906) *The butterflies of the British Isles: with accurately coloured figures of every species and many varieties, also drawings of egg, caterpillar chrysalis, and food-plant, and including the new generic names.* Frederick Warne, London.

—— (1907-1909) *The moths of the British Isles*. Two volumes. First series comprising the families Sphingidae to Noctuidae. Second series comprising the families Noctuidae to Hepialidae. Frederick Warne, London.

—— (1910) (*Melitaea aurinia*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 107.

—— (1921) *The butterflies of the British Isles: with accurately coloured figures of every species and many varieties, also drawings of egg, caterpillar chrysalis, and food-plant, and including the new generic names.* Second edition. Frederick Warne, London.

—— (1941) *The butterflies of the British Isles: with accurately coloured figures of every species and many varieties, also drawings of egg, caterpillar chrysalis, and food-plant, and including the new generic names.* Third edition. Frederick Warne, London.

—— (1961) *The moths of the British Isles.* Fourth edition. 2 volumes. First series edited and revised by Edelsten, H. M. and Fletcher, D. S. Second series edited and revised by Edelsten, H. M., Fletcher, D. S. and Collins, R. J. Frederick Warne, London & New York.

Spalding, A. (2018) The Presidential Address - Part 2. Sandhill Rustic Moths from Berlin to Dingle, Southport to Vitoria Gasteiz. *British Journal of Entomology and Natural History* **31**: 1-16.

Spalding A., Fukova, I. and Ffrench-Constant, R. H. (2013) The genetics of *Luperina nickerlii* Freyer, 1845 in Europe (Noctuidae). *Nota lepidopterologica* **36**: 35-46.

Spalding, A. and Young, M. R. (2011) The persistence of the Sandhill Rustic Moth *Luperina nickerlii* spp. *leechi* (Lepidoptera: Noctuidae) at an isolated site in Cornwall, UK. *British Journal of Entomology and Natural History* **24**: 75-85. (Irish subspecies)

Speight, M. C. D. and Cogan, B. H. (1979) *Acrometopia wahlbergi*, *Clusiodes caledonica* and *Stigmella catharticella*: insects new to Ireland. *Ir. Nat. J.* **19**: 401-403.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Sperring, C. W. (1915) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1915-16**: 50.

—— (1919) (*Aglaias urticae*). *Proceedings of the South London Entomological and Natural History Society* **1919-20**: 74-75.

—— (1927) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 133-134.

—— (1928) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1928-29**: 71-73, 93.

—— (1928) (*Brenthis euphrosyne*). *Proceedings of the South London Entomological and Natural History Society* **1928-29**: 113.

Spillar, R. (1931) (Convolvulus Hawk Moth). *Ir. Nat. J.* **3**: 156.

Stainton, H. T. (1855) Lepidoptera: new British species since 1835. *The Entomologist's Annual* **1855**: 5-39.

—— (1855) Lepidoptera: The new British species in 1854. *The Entomologist's Annual* **1855**: 40-50.

—— (1857) Latest captures. *Entomologist's Weekly Intelligence* **2**: 125. **4**: 114.

—— (1858) *Notodonta bicoloria*. *Entomologist's Weekly Intelligence* **4**: 147.

—— (1859) Lepidoptera. New British species in 1858. *The Entomologist's Annual* **1859**: 145-157.

—— (1860) Lepidoptera. Rare British species captured in 1859. *The Entomologist's Annual* **1860**: 137-143.

—— (1861) Lepidoptera. New British species in 1860. *The Entomologist's Annual* **1861**: 82-92.

—— (1862) Lepidoptera. New British species in 1861. *The Entomologist's Annual* **1862**: 105-113.

—— (1862) Lepidoptera. Rare British species captured in 1861. *The Entomologist's Annual* **1862**: 115-118.

—— (1863) Lepidoptera. New British species and captures of rarities in 1862. *The Entomologist's Annual* **1863**: 147-152.

—— (1866) New British Lepidoptera since 1853. *The Entomologist's Annual* **1866**: 19-46.

—— (1874) Lepidoptera. Observations on Tineina. Epitomized summary of the observations occurring in nineteen previous volumes of this Annual. *The Entomologist's Annual* **1874**: 1-47.

Stainton, H. T. (1883) On two of the species of *Gelechia* which frequent our salt-marshes. *Entomologist's mon. Mag.* **19**: 251-253.

Stanley, D. A. and Stout, J. C. (2013) Quantifying the impacts of bioenergy crops on pollinating insect abundance and diversity: a field-scale evaluation reveals taxon-specific responses. *Journal of Applied Ecology* **50**: 335-344.

Starkey, J. (1901) *Vanessa io* in Sligo. *Ir. Nat.* **10**: 115.

Starkey, W. (1892) Butterflies from Howth. *Ir. Nat.* **1**: 170.

—— (1893) Early Spring Butterflies. *Ir. Nat.* **2**: 176.

Stawell, F. (1902) *Gonepteryx rhamni* in Co. Cork. *Ir. Nat.* **11**: 18.

Stelfox, A. W. (1921) The Wood White Butterfly in Co. Dublin. *Ir. Nat.* **30**: 97.

—— (1927) A new Irish Moth. *Ir. Nat. J.* **1**: 195.

—— (1927) A late appearance of the Wood White Butterfly. *Ir. Nat. J.* **1**: 203.

—— (1929) An early Red Admiral. *Ir. Nat. J.* **2**: 182.

—— (1929) Death's-Head Hawk-Moth in County Meath. *Ir. Nat. J.* **2**: 182.

—— (1931) A rare plume moth refound in Ireland. *Ir. Nat. J.* **3**: 214.

—— (1931) An immigration of butterflies. *Ir. Nat. J.* **3**: 232.

—— (1933) Irish records for the Crimson Speckled Moth. *Ir. Nat. J.* **4**: 155.

—— (1933) North American Butterfly, *Papilio glaucus* L., in Co. Wicklow. *Ir. Nat. J.* **4**: 245.

—— (1934) Death's Head Hawk-Moth, *Acherontia atropos* L., in Wexford in late October. *Ir. Nat. J.* **5**: 17.

—— (1934) Hibernation of the Peacock Butterfly. *Ir. Nat. J.* **5**: 18.

—— (1935) Clouded Yellow Butterfly in the Aran Islands in July, 1934. *Ir. Nat. J.* **5**: 230.

—— (1935) Emperor Moth at lighthouse lantern. *Ir. Nat. J.* **5**: 259.

—— (1936) Clouded Yellow Butterfly in Phoenix Park, Dublin. *Ir. Nat. J.* **6**: 24.

—— (1936) Records for Death's Head and Convolvulus Hawk-Moths in 1935. *Ir. Nat. J.* **6**: 50.

—— (1945) A rare clearwing moth, *Sesia formicaeformis* Esp., in Co. Louth. *Ir. Nat. J.* **8**: 308.

—— (1946) (Bath White Butterfly in Ireland). *Ir. Nat. J.* **8**: 336-337.

—— (1949) Methods of indicating distribution with special reference to that of the Dingy Skipper Butterfly in Ireland. *Ir. Nat. J.* **9**: 281-283.

—— (1949) The Large Heath Butterfly (*Coenonympha tiphon* Rott.) in Co. Wicklow. *Ir. Nat. J.* **9**: 338.

—— (1964) Arthur Adrain Lisney 1907-1963. *Ir. Nat. J.* **14**: 286-287.

—— (1966) An ichneumon parasitic on the larva of a small moth which feeds on larch. New to Ireland. *Ir. Nat. J.* **15**: 242.

—— (1969) A curious habitat and food-plant for the larva of the Magpie-moth *Abraxas grossulariata* L. *Ir. Nat. J.* **16**: 244.

Stelfox, A. W., Brunker, J. P. and Moffat, C. B. (1928) Phenological report for 1927. *Ir. Nat. J.* **2**: 13-14.

Stelfox, G. M. (1935) Clouded Yellow Butterfly in Co Kerry, 1934. *Ir. Nat. J.* **5**: 230.

Stendall, J. A. S. (1929) Convolvulus Hawk-Moth in Belfast. *Ir. Nat. J.* **2**: 247.

—— (1933) Death's Head Hawk-Moth in Co. Derry. *Ir. Nat. J.* **4**: 220.

Stendall, J. A. S. (1934) Death's Head Hawk-Moth in Co. Antrim. *Ir. Nat. J.* **5**: 17.
—— (1936) Records. Lepidoptera. *Proceedings of the Belfast Naturalists' Field Club* **9**: 354.
—— (1940) Death's-Head Moth traveller. *Ir. Nat. J.* **7**: 249.
—— (1940) Early Peacock Butterfly. *Ir. Nat. J.* **7**: 305.
—— (1940) Lunar Hornet Clearwing Moth in Co. Down. *Ir. Nat. J.* **7**: 305.
—— (1941) Clouded Yellow Butterfly in the North. *Ir. Nat. J.* **7**: 341.
—— (1942) (Irish records for Death's-Head Hawk-Moth, 1940). *Ir. Nat. J.* **8**: 9.
—— (1943) Striped Hawk-Moth in Belfast. *Ir. Nat. J.* **8**: 113.
—— (1943) Death's-Head Moth in Belfast. *Ir. Nat. J.* **8**: 113.
—— (1943) Convolvulus Hawk-Moth in Belfast. *Ir. Nat. J.* **8**: 113.
—— (1945) Convolvulus Hawk-Moth in Co. Antrim. *Ir. Nat. J.* **8**: 267.
—— (1945) Convolvulus Hawk-Moth in Belfast. *Ir. Nat. J.* **8**: 308.
—— (1946) Peacock Butterfly in January. *Ir. Nat. J.* **8**: 337.
—— (1946) Convolvulus Hawk-moth records. *Ir. Nat. J.* **8**: 436.
—— (1946) Vestal Moth in Co. Down. *Ir. Nat. J.* **8**: 337.
—— (1952) Death's-Head Hawk-Moth in Co. Londonderry and Co. Antrim. *Ir. Nat. J.* **10**: 324.
—— (1953) Convolvulus Hawk-moth in Co. Antrim. *Ir. Nat. J.* **11**: 25.
Stephens, N. E. (1910) *Dasypolia templi* in Dublin. *Ir. Nat.* **19**: 139.
Sterling, D. and Sterling, P. (1987) 1986 Annual Exhibition. British Macrolepidoptera. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 44-49. (B. K. West: aberrations of *Arctia caja* L. *viz.* ab. *consolidata* Cock. from Co. Clare)
Sterling, P. and Parsons, M. (2012) *Field guide to the micro moths of Great Britain and Ireland.* British Wildlife Publishing, Gillingham, Dorset.
Sterling, P. H., Foot, D. and Henwood, B. P. (2013) A new locality for the Irish Annulet *Odontognophos dumetana hibernica* Forder (Lep.: Geometridae). *Entomologist's Rec. J. Var.* **125**: 157.
Sterling, P. H., Henwood, B. P. and Foot, D. (2013) British macromoths. *British Journal of Entomology and Natural History* **26**: 35-36. (Burren species including *Argyresthia abdominalis* new to Ireland)
—— (2015) Least Minor *Photedes captiuncula* (Tr.) ssp. *tincta* (Kane, 1895) (Lep.: Noctuidae) in Ireland - the finding of larvae and a previously unrecorded foodplant. *Entomologist's Rec. J. Var.* **127**: 37-40.
Stevens, S. (1897) Lepidoptera of Ireland (*Notondonta bicolora*). *Entomologist's mon. Mag.* **10**: 180.
Stiff, A. (1935) (*Polyommatus icarus*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1935-36**: 39.
—— (1936) (*Polyommatus icarus*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1936-37**: 89.
Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast.
Stoneham, H. F. (1910) *Acherontia atropos* in Ireland. *Entomologist* **43**: 316.

Stoneham, H. F. (1912) *Diaphora mendica* in Ireland. *Entomologist* **45**: 209-210.
—— (1912) *Pyrameis cardui* in April. *Entomologist* **45**: 156-157.
—— (1913) *Manduca* (*Acherontia*) *atropos* in Ireland. *Entomologist* **46**: 334.
Stonell, B. S. (1908) On rearing *Melitaea aurinia* (*artemis*). *Entomologist* **41**: 182-183.
Stout, J. C. (2007) Pollination of invasive *Rhododendron ponticum* in Ireland. *Apidologie* **38**: 198-206.
Stowell, H. A. (1868) On the natural history of *Acronycta alni*. *Entomologist's mon. Mag.* **5**: 144-146.
Strickland, P. and Allen, D. (2019) Irish China-mark *Elophila rivulalis* (Duponchel, 1834): new to Britain and Ireland. *Atropos* **63**: 31-35.
Strickland, P. and Bond, K. G. M. (2011) *Acrolepia autumnitella* Curtis, 1838 (Lepidoptera: Yponomeutidae), new to Ireland. *Ir. Nat. J.* **31**: 138.
Stuart, H. B. (1924) (*Pieris napi*). *Entomologist's mon. Mag.* **60**: 21.
Sullivan, D. J. (1944) Observation on the strange behaviour of moths at Inishtrahull. *Ir. Nat. J.* **8**: 182.
—— (1946) Remarkable migration of butterflies at night and during a gale in Co. Donegal. *Ir. Nat. J.* **8**: 337.
Sway, C. van, Fox, R. and Bouwman, J. (2008) The influx of the Camberwell Beauty *Nymphalis antiopa* (Linn.) to north-west Europe in 2006. *Atropos* **35**: 9-19. (Co. Down)
Sweeting, H. R. (1910) *Hydraecia crinanensis* in Ireland. *Ir. Nat.* **19**: 240 & *Entomologist* **43**: 283.
Swinhoe, C. (1903) A revision of the Old World Lymantriidae in the National Collection. *Transactions of the Entomological Society of London* **1903**: 375-498.
Tait, R. (1912) (*Melitaea aurinia*). *Proceedings of the Lancashire and Cheshire Entomological Society* **36**: 16.
Talbot, G. (1929) *Pyrameis huntera virginiensis* in Co. Cork. *Entomologist* **62**: 254.
Talbot, W. (1871) *Lobophora hexapterata* al (sic) Limerick. *Entomologist* **5**: 396.
—— (1872) *Lobophora hexapterata* near Limerick. *Entomologist* **6**: 140.
—— (1874) *Bembeciformis* and *typhae* at Tarbert Co. Limerick. *Entomologist* **7**: 15.
—— (1875) Rare Lepidoptera near Limerick. *Entomologist* **8**: 89.
—— (1878) Captures in Ireland in 1877. *Entomologist* **11**: 70-71.
Tams, T. (2012) *Coleophora frischella* (L.) (Lep.: Coleophoridae) and other interesting new moth records for Northumberland. *Entomologist's Rec. J. Var.* **124**: 163-164.
Tebb, R. H. S. (1919) *Leucophasia sinapis* in Co. Wicklow. *Ir. Nat.* **28**: 92.
Tennent, W. J. (1976) *Polyommatus icarus mariscolore* Kane (Lep., Lycaenidae) in Northern Ireland. *Entomologist's Gazette* **27**: 133.
Terry, M. G. W. (1986) An autumn visit to Cape Clear Island, Co. Cork, Ireland. *Entomologist's Rec. J. Var.* **98**: 175-176.
Thirlwell, I. R. (2016) British microlepidoptera. *British Journal of Entomology and Natural History* **29**: 19-20. (Antrim: *Blastobasis vittata*)
Thomas, C. D., Bulman, C. R. and Wilson, R. J. (2008) Where within a geographical range do species survive best? A matter of scale. *Insect Conservation and Diversity* **1**: 2-8.
Thomas, J. and Lewington, R. (2010) *The butterflies of Britain and Ireland.* Second edition. British Wildlife Publishing, Milton on Stour. 228pp.

Thomas, J. and Lewington, R. (2014) *The butterflies of Britain & Ireland* (New revised edition). British Wildlife Publishing, Oxford.

Thompson, J. A. (1946-47) Some preliminary observations on *Pieris napi* (L.). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1946-47**: 115-122.

—— (1952) Nomenclature of the yellow forms of *Pieris napi* Linnaeus. A plea for reason. *Entomologist's Rec. J. Var.* **64**: 75-78.

—— (1954) Extra spotted specimens of *Eumenis semele* L. in Ireland and Wales. *Entomologist's Rec. J. Var.* **66**: 173.

Thompson, K. (1899) *Colias edusa* in Co. Donegal. *Ir. Nat.* **8**: 208.

Thompson, R. and Nelson, B. (2006) *The butterflies and moths of Northern Ireland*. Publication **No. 018**. National Museums Northern Ireland, Belfast. xii + 428pp.

—— (2020) The moths and butterflies of Northern Ireland. CEDaR - Online Resources. <http://www.habitas.org.uk/moths/>

Thomson, G. (1969) *Maniola* (*Epinephele*) *jurtina* (L.) (Lep. Satyridae) and its forms. *Entomologist's Rec. J. Var.* **81**: 7-14, 51-58, plate 1. Maps 1, 2, 83-90, 116-117.

—— (1971) The Manx race of *Maniola jurtina* (L.) (Lep., Satyridae). *Entomologist's Rec. J. Var.* **83**: 91-94.

Thornhill, C. (1895) Variety of *Agrotis segetum*. *Entomologist's Rec. J. Var.* **6**: 15.

Thornhill, W. B. (1894) *Aplecta advena* in Ireland. *Entomologist* **27**: 32.

—— (1894) Note on *Smerinthus populi*. *Entomologist* **27**: 294.

—— (1895) (Notes on collecting, etc.). *Entomologist's Rec. J. Var.* **6**: 92.

—— (1895) *Amphidasys betularia* var. *doubledayaria* in Ireland. *Entomologist* **28**: 18.

—— (1895) *Plusia chrysitis*. *Entomologist* **28**: 159.

—— (1895) Colour-changes in *Plusia chrysitis*. *Entomologist* **28**: 229.

—— (1896) Abundance of *Choerocampa porcellus*. *Entomologist* **29**: 289.

—— (1896) Abundance of larvae of *Apamea ophiogramma. Entomologist's Rec. J. Var.* **8**: 68.

—— (1896) Pupation of *Apamea ophiogramma*. *Entomologist's Rec. J. Var.* **8**: 116.

—— (1896) *Trochilium crabroniforme* in Ireland. *Entomologist's Rec. J. Var.* **8**: 218.

—— (1896) (Double-broodedness of *Plusia festucae*). *Entomologist's Rec. J. Var.* **8**: 307.

—— (1897) Pupa-digging in Ireland. *Entomologist's Rec. J. Var.* **9**: 64.

—— (1897) Habits of the larva of *Apamea ophiogramma*, with some notes on breeding the insect. *Entomologist's Rec. J. Var.* **9**: 9-10.

—— (1897) Query as to *Miana bicoloria* and its Form *rufuncula*. *Entomologist's Rec. J. Var.* **9**: 39.

—— (1899) *Acherontia atropos* at Castle Bellingham. *Entomologist's Rec. J. Var.* **11**: 278.

Tinne, P. F. (1911) (*Polyommatus phloeas*). *Proceedings of the Lancashire and Cheshire Entomological Society* **35**: 15.

—— (1912) (*Lycaena icarus*). *Proceedings of the Lancashire and Cheshire Entomological Society* **36**: 13.

—— (1913) (Lepidoptera). *Proceedings of the Lancashire and Cheshire Entomological Society* **37**: 16.

Torlesse, A. D. (1964) Western Ireland, 1963. *Entomologist's Rec. J. Var.* **76**: 40-44.

Townsend, M. (1928) Clouded Yellow Butterfly in County Cork. *Ir. Nat. J.* **2**: 111.

Townsend, M. and Waring, P. (2019) *Concise guide to the moths of Great Britain and Ireland*. Bloomsbury, London.

Townsend, M. C., Clifton, J. and Goodey, B. (2010) *British and Irish moths: an illustrated guide to selected difficult species.* Butterfly Conservation, Wareham.

Tremewan, W. G. (1958) Notes on the British species of the Genus *Zygaena* Fabricius. *Entomologist's Gazette* **9**: 187-196.

—— (1960) Additional notes on the British species of the Genus *Zygaena* Fabricius (Lep., Zygaenidae). *Entomologist's Gazette* **11**: 185-194.

—— (1961) The British species of the Genus *Procris* Fabricius (Lep., Zygaenidae). *Entomologist's Gazette* **12**: 19-23.

—— (1976) Nomenclatural notes on British Zygaenidae (Lepidoptera). *Entomologist's Gazette* **27**: 149-154.

—— (1985) Zygaenidae. Pp 74-123. *In* Heath, J. and Emmet, A. M. (eds) *The moths and butterflies of Great Britain and Ireland.* **2**. *Cossidae-Heliodinidae.* Harley Books, Colchester.

—— (1997) A record of *Atolmis rubricollis* (Linnaeus, 1758) (Lepidoptera: Arctiidae) from the Burren, Co. Clare. *Entomologist's Gazette* **48**: 284.

—— (2008) The Zygaenidae (Lepidoptera) of the Burren, Co. Clare, Ireland: their distribution, and comments on the taxonomic status of *Zygaena purpuralis sabulosa Entomologist's Gazette* **59**: 85-100, figs 1-6.

Tubbs, R. (1978) The breeding of butterflies with special reference to the genetics of aberrational forms. *Proceedings and Transactions of the British Entomological and Natural History Society* **11**: 77-88, plates VI-VII.

—— (1987) 1986 Annual Exhibition. British butterflies. *Proceedings and Transactions of the British Entomological and Natural History Society* **20**: 41-44. (Barrington, R. D. G.: exaggerated form of *Maniola jurtina* L.)

Tubbs, R. S. (1984) 1983 Annual Exhibition. British butterflies. *Proceedings and Transactions of the British Entomological and Natural History Society* **17**: 2-5. (p. 3 Pickles, A. J. & C. T.: *Leptidea sinapis* L. ssp. *juvernica* from the Burren)

Tuck, K. R. (2000) Two unusual records of Tortricidae (Lepidoptera) from Essex. *British Journal of Entomology and Natural History* **13**: 68-69. (*Celypha arbutella* (L.))

Tuckey, J. W. T. (1944) New records for Irish Lepidoptera. *Ir. Nat. J.* **8**: 183.

Tugwell, W. H. (1888) *Deilephila galii* larvae on the South-East coast of Kent. *Entomologist's mon. Mag.* **25**: 112.

—— (1889) Notes on the probable origin of last year's *Deilephila galii*. *Entomologist's mon. Mag.* **25**: 284-285.

—— (1891) Is *Miana fasciuncula* a var. of *M. strigilis*. *Entomologist's Rec. J. Var.* **2**: 8-9.

Tunmore, M. (1996) The 1995 Camberwell Beauty *Nymphalis antiopa* (L.) influx. *Atropos* **1**: 2-5.

—— (2000) The 1999 Monarch *Danaus plexippus* (Linn.) influx into the British Isles. *Atropos* **9**: 4-16.

—— (2006) National Moth Night (and Day): 9 July 2005. *Atropos* **29**: 14-20.

—— (2007) National Moth Night: 23 September 2006. *Atropos* **31**: 46-54.

Tunmore, M. and Hill, L. (2008) National Moth Night: 11 August 2007. *Atropos* **34**: 42-61. (ten counties)

—— (2009) National Moth Night (and Day): 7 June 2008. *Atropos* **38**: 36-55.

—— (2010) National Moth Nights: 18 & 19 September 2009. *Atropos* **40**: 58-77.

—— (2013) Moth Night: 21-23 June 2012. *Atropos* **49**: 70-84.

Tunmore, M., Hill, L. and Briggs, P. (2012) National Moth Night 15 May 2010. *Atropos* **45**: 14-28.

Turner, G. (1914) *Spilocryptus fumipennis* in Co. Donegal. *Ir. Nat.* **23**: 50.

Turner, H. J. (1906) (*Aglais urticae*). *Proceedings of the South London Entomological and Natural History Society* **1906-07**: 57.

—— (1913) (*Maniola jurtina*). *Proceedings of the South London Entomological and Natural History Society* **1913-14**: 108.

—— (1918) (*Pyrameis atalanta*). *Proceedings of the South London Entomological and Natural History Society* **1918-19**: 72.

—— (1919) (*Hydraecia crinanensis*). *Proceedings of the South London Entomological and Natural History Society* **1919-20**: 66.

—— (1919) (*Melitaea aurinia*). *Proceedings of the South London Entomological and Natural History Society* **1919-20**: 94.

—— (1921) (*Euchloe cardamines*). *Proceedings of the South London Entomological and Natural History Society* **1921-22**: 35.

—— (1921) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1921-22**: 30.

—— (1921) A new aberration of *Selidosoma plumaria* (*ericetaria*). *Entomologist's Rec. J. Var.* **33**: 36-37.

—— (1921) (Vars of Rhopalocera). *Proceedings of the South London Entomological and Natural History Society* **1921-22:** 73-74.

—— (1922) (Vars of Rhopalocera). *Proceedings of the South London Entomological and Natural History Society* **1922-23**: 91.

—— (1923) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1923-24**: 140.

—— (1926-48) The British Noctuae and their varieties. *Entomologist's Rec. J. Var.* **39-60**. (supplements)

—— (1927) Notes on a collection of *Polyommatus icarus* Race *clara* made in Ireland in 1925-6. *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 82-87.

—— (1927) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 143.

—— (1929) (some Noctuae varieties in 1928). *Entomologist's Rec. J. Var.* **41**: 88.

—— (1933) Notes on migratory species of Lepidoptera (mainly Surrey). *Entomologist's Rec. J. Var.* **45**: 127.

—— (1934) Information wanted. *Entomologist's Rec. J. Var.* **46**: 12.

—— (1934) (*Hadena barrettii*). *Proceedings of the South London Entomological and Natural History Society* **1933-34**: 51.

Turner, H. J. (1936) (*Euxoa tritici*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1936-37**: 5.

—— (1941-1948) Supplement to Tutt's British Noctuae and their varieties. *Entomologist's Rec. J. Var.* **53-60**, supplements.

Tutt, J. W. (1885) On the Genus *Agrotis*. *Entomologist* **18**: 94-96.

—— (1888) Contributions towards a list of the varieties of Noctuae occurring in the British Islands. *Entomologist* **21**: 44-52, 176-181, 305-313. **22**: 9-12, 41-43, 58-62, 152-157, 179-182, 204-210, 229-233, 250-255, 302-305. **23**: 12-13.

—— (1888-90) Variation of certain Agrotidae. *Entomologist* **21**: 198-202.

—— (1890) Melanism and melanochroism in British Lepidoptera. *Entomologist's Rec. J. Var.* **1**: 49-56, 317-325.

—— (1890) Is *Miana fasciuncula* a var. of *M. strigilis*? *Entomologist's Rec. J. Var.* **1**: 242-243.

—— (1891) (Is *Miana fasciuncula* a variety of *M. strigilis*). *Entomologist's Rec. J. Var.* **2**: 9-10.

—— (1891) *Cleora lichenaria* in Ireland. *Entomologist's Rec. J. Var.* **2**: 296.

—— (1892) Retrospect of a Lepidopterist for 1892. *Entomologist's Rec. J. Var.* **3**: 280-284.

—— (1893) (*Coenonympha typhon*). *Entomologist's Rec. J. Var.* **4**: 201.

—— (1893) Stray notes on certain species of butterflies. *Entomologist's Rec. J. Var.* **4**: 290-291.

—— (1893) The Genus *Xanthia*: with notes on variation, habits and affinities. *Entomologist's Rec. J. Var.* **4**: 25-28, 69-71, 93-96.

—— (1894) Records of emergence at unusual periods. *Entomologist's Rec. J. Var.* **5**: 71.

—— (1894) Notes on the variation of *Spilosoma mendica* with some thoughts on the ancestral type of the Genus. *Entomologist's Rec. J. Var.* **5**: 185-189.

—— (1895) Notes on *Caradrina ambiqua* and *C. superstes*. *Entomologist's Rec. J. Var.* **6**: 53-54.

—— (1895) Notes on *Zygaena minos*. *Entomologist's Rec. J. Var.* **6**: 270-276.

—— (1895) On the variation of *Melitaea aurinia*. *Entomologist's Rec. J. Var.* **7**: 140-143.

—— (1896) Restrospect of a Lepidopterist for 1895. *Entomologist's Rec. J. Var.* **7**: 174-179.

—— (1896) Field work for April and May. *Entomologist's Rec. J. Var.* **8**: 20-21.

—— (1896) Field work for May and early June. *Entomologist's Rec. J. Var.* **8**: 43-45.

—— (1896) Notes on life-histories, larvae, etc. *Entomologist's Rec. J. Var.* **8**: 238-239.

—— (1896) Critical notes on the specific identity of *Bombyx quercus* and *Bombyx callunae*. *Entomologist's Rec. J. Var.* **8**: 298-303.

—— (1897) (on the occurrence of *Tephrosia crepuscularia* (*biundularia*) in Ireland). *Entomologist's Rec. J. Var.* **9**: 324.

—— (1898) Retrospect of a Lepidopterist for 1897. *Entomologist's Rec. J. Var.* **10**: 1-6.

—— (1899) Practical hints. Field Work for Spring months: June. *Entomologist's Rec. J. Var.* **11**: 163-164.

—— (1899) *Luffia lapidella*, Goeze, a British species - notes on *Luffia pomonae*. *Entomologist's Rec. J. Var.* **11**: 207-208.

—— (1901) Field work for February and March. *Entomologist's Rec. J. Var.* **13**: 81-82.

—— (1901) Practical hints. Field work for July. *Entomologist's Rec. J. Var.* **13**: 215-218.

Tutt, J. W. (1902) List of species, varieties and aberrations of Lepidoptera so far only recorded from the British Islands. *Entomologist's Rec. J. Var.* **14**: 113-118, 147-149, 186-188, 202-205, 259-262.

—— (1904) Notes on the habits, distribution and variation of *Phragmatobia fuliginosa*. *Entomologist's Rec. J. Var.* **16**: 58-67.

—— (1904) Notes on the variation of *Larentia multistrigaria*. *Entomologist's Rec. J. Var.* **16**: 303-305.

—— (1910) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1910-11**: 114.

Tyerman, W. A. (1905) (*Pyrameis cardui*). *Proceedings of the Lancashire and Cheshire Entomological Society* **29**: 25.

—— (1906) (*Pygaera pigra*). *Proceedings of the Lancashire and Cheshire Entomological Society* **30**: 18.

Tyner, A. (2011) Moths. *Biodiversity Ireland* **Issue 7**: 12. (*Ennomos fuscantaria*, *Mimas tiliae*, *Watsonalla binaria*)

Uffen, R. W. J. (1967) British records of *Coleophora sylvaticella* Wood (Lep., Coleophoridae). *Entomologist's Gazette* **18**: 191-194.

—— (1969) (Exhibits: ?*Coleophora tamesis* Waters). *Proceedings and Transactions of the British Entomological and Natural History Society* **2**: 35.

—— (1971) (Exhibits: *Hypercallia citrinalis* Scop. (Oecophoridae) from the Burren). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 94.

—— (1971) (Communications: Burren - Irish Golden Rod and *Coleophora ramosella* Zell. (Coleophoridae)). *Proceedings and Transactions of the British Entomological and Natural History Society* **4**: 95.

—— (1973) (Exhibits: *Eumenis semele* L., *Kessleria saxifragae* Stain.). *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 92.

Ussher, C. B. (1881) *Deiopeia pulchella* in Ireland. *Entomologist* **14**: 157-158.

Vallius, E., Buchsbaum, U. and Nazarov, V. (2013) Pollination activity of *Zygaena filipendulae* (Linnaeus, 1758) (Lepidoptera: Zygaenidae) in *Anacamptis pyramidalis* orchid on the North Bull Island (Ireland). *Entomofauna* **34**: 357-368.

van Nieukerken, E. J. (1985) A taxonomic revision of the western Palaearctic species of the subgenera *Zimmermannia* Hering and *Ectoedemia* Busck s. str. (Lepidoptera: Nepticulidae), with notes on their phylogeny. *Tijdschrift voor Entomologie* **128**: 1-164. (*E. occultella*, *E. minimella*, *E. rubivora*)

—— (1990) The *Trifurcula subnitidella* group (Lepidoptera: Nepticulidae): taxonomy, distribution and biology. *Tijdschrift voor Entomologie* **133**: 205-238.

van Nieukerken, E. J., Laštůvka, A. and Laštůvka, Z. (2010) Western Palaearctic *Ectoedemia* (*Zimmermannia*) Hering and *Ectoedemia* Busck *s. str.* (Lepidoptera, Nepticulidae): five new species and new data on distribution, hostplants and recognition. *ZooKeys* **32**: 1-82. (*E. intimella*, *E. argyropeza*, *E. subbimaculella*, *E. arcuatella*)

van Swaay, C. (2009) Counting butterflies all over Europe. *Biodiversity Ireland* **Issue 3**: 7-8.

van Swaay, C. and Hensle, J. (2003) The influx of Camberwell Beauty *Aglais antiopa* (Linn.) to north-west Europe in 1995. *Atropos* **19**: 3-7.

Vane-Wright, R. I. (1975) The butterflies named by J. F. Gmelin (Lepidoptera: Rhopalocera). *Bulletin of the British Museum of Natural History* (Entomology) **32**: 17-64, 6 plates.

Verity, R. (1916) The British races of butterflies: their relationships and nomenclature. *Entomologist's Rec. J. Var.* **28**: 73-80, 128-133, 165-174.

Vine Hall, J. H. (1954) The British races of *Aricia agestis* Schiff. (Lep., Lycaenidae). *Entomologist's Gazette* **5**: 3-8.

—— (1957) A problem of distribution with special reference to *Erebia epiphron* (Knoch) (Lep: Satyridae). *Entomologist's Gazette* **8**: 211-215.

Vivian, -. (1894) (Notes of the Season 1894). *Entomologist's Rec. J. Var.* **5**: 298.

Wakeham-Dawson, A. and Dennis, R. L. H. (2004) A quantitative description of the androconia of British and Irish *Hipparchia semele* (Linnaeus, 1758) (Lepidoptera: Nymphalidae, Satyrinae). *Entomologist's Gazette* **55**: 249-255.

Wakely, S. (1959) Notes on *Telphusa triparella* Zell. *Entomologist's Rec. J. Var.* **71**: 154.

Walker, F. H. (1921) Lepidoptera at Dollymount, Co. Dublin. *Ir. Nat.* **30**: 62-63.

Walker, J. J. (1880) Notes on the Lepidoptera in the West of Ireland. *Entomologist's mon. Mag.* **17**: 79-82.

—— (1904) (Some notes on the Lepidoptera of the "Curtis" Collection of British Insects). Extracts from Curtis's MS. Register. *Entomologist's mon. Mag.* **40**: 192-194.

—— (1907-10) Some notes on the Lepidoptera of the "Dale·Collection" of British insects, now in the Oxford University Museum. *Entomologist's mon. Mag.* **43**: 93-101, 130-134. **45**: 106-110. **46**: 185-187.

Wallace, A. (1859) Doings in Ireland. *Entomologist's Weekly Intelligence* **6**: 156-157.

Walsh, F. and Walsh, M. (2014) The Clouded Yellow butterfly (*Colias croceus* Fourcroy) overwintering at the Raven, Co. Wexford. *Ir. Nat. J.* **33**: 89-92.

Walsh, P. M. (2007) Lepidoptera review, 2006. *Ir. Nat. J.* **28**: 473-475.

—— (2009) Lepidoptera review, 2007. *Ir. Nat. J.* **29** (2008): 145-147.

Walsh, P. M. and Bond, K. G. M. (2009) Dark Mottled Willow *Spodoptera cilium* (Boisd.) in Co. Waterford, 2008 - new to Ireland. *Atropos* **36**: 10-11.

Walsh, P. M., Boyd, T., Nash, D. W., Rolston, E. and Tyner, A. (2009) Report on migrant and notable Lepidoptera in Ireland, 2006. *Ir. Nat. J.* **30**: 40-50.

—— (2011) Report on migrant and notable Lepidoptera in Ireland, 2007. *Ir. Nat. J.* **31** (2010): 23-32.

Walsh, P. M., Nash, D. W., Rippey, I., Rolston, E. and Tyner, A. (2013) Report on migrant and notable Lepidoptera in Ireland, 2009. *Ir. Nat. J.* **32**: 89-98.

Walsh, P. M., Nash, D. W., Rolston, E., Tyner, A. and Boyd, T. (2011) Report on migrant and notable Lepidoptera in Ireland, 2008. *Ir. Nat. J.* **31**: 100-107.

Walshe, E. W. H. (1887) *Cirrhoedia xerampelina* in Ireland. *Entomologist* **20**: 276.

Walters, M. P. (1966) *Macroglossa stellatarum* L. in Co. Antrim. *Ir. Nat. J.* **15**: 212.

Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Ward, W. T. C. (1901) *Vanessa io* near Londonderry. *Ir. Nat.* **10**: 172.

Waring, P. (2004) Some observations on the Slender-striped Rufous moth *Coenocalpe lapidata* (Hb.) (Lep.: Geometridae). *Entomologist's Rec. J. Var.* **116**: 173-178, plate K.

Waring, P. (2007) Mothing on the Burren, Co. Clare, Ireland, 13-15 July 2007. *Bulletin of the Amateur Entomologists' Society* **66**: 238-240.

—— (2008) Mothing on the Burren, Co. Clare, Ireland 13-15 July 2007. *Bulletin of the Amateur Entomologists' Society* **67**: 27.

—— (2011) Gravid female Forester Moth *Adscita statices* L. (Lep.: Zygaenidae) nectaring in a Peterborough garden and comments on some other unexpected reports. *Entomologist's Rec. J. Var.* **123**: 77-79. (map)

Waring, P., Allen, D., McLoughlin, V. and Mellon, C. (2008) Caterpillars of the Argent and Sable Moth *Rheumaptera hastata* found in Northern Ireland for the first time. *Bulletin of the Amateur Entomologists' Society* **67**: 27.

Waring, P., Allen, D. and Mellon, C. (2009) Larvae of the Argent & Sable *Rheumaptera hastata* (L.) (Lep.: Geometridae) discovered in Northern Ireland apparently for the first time, with notes on pupation. *Entomologist's Rec. J. Var.* **121**: 7-9.

Waring, P. and Townsend, M. (2017) *Field Guide to the moths of Great Britain and Ireland.* Third Edition. Bloomsbury Wildlife, London.

Warren, B. C. S. (1948) On the race of *Erebia epiphron* indigenous in the British Isles. *Entomologist* **81**: 181-186.

—— (1966) On the nature and origin of certain races of the *napi* group of the Genus *Pieris* (Lepidoptera). *Entomologist's Rec. J. Var.* **78**: 57-65, plate II.

Warren, M. S. (1984) The biology and status of the Wood White butterfly, *Leptidea sinapis* (L.) (Lepidoptera: Pieridae), in the British Isles. *Entomologist's Gazette* **35**: 207-223.

Warren, W. (1884) *Bryophila impar*, n. sp. distinct from *B. glandifera*. *Entomologist's mon. Mag.* **21**: 22-23.

Watkins, N. A. (1941) (*Polyommatus icarus* and *Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1941-42**: 33.

Watts, C. W. (1888) *Deilephila livornica* at Belfast. *Entomologist* **21**: 186.

—— (1892) Lepidoptera in the Mourne District. *Entomologist's mon. Mag.* **28**: 217-218.

—— (1893) *Colias edusa* in Co. Mayo. *Entomologist's mon. Mag.* **29**: 211.

—— (1894) Lepidoptera in the Belfast District. *Entomologist's mon. Mag.* **30**: 12-13.

—— (1894) Lepidoptera in the Belfast District in 1893. *Ir. Nat.* **3**: 44-45.

—— (1894) Lepidoptera in the Belfast District. *Proceedings of the Belfast Naturalists' Field Club* **4** Appendix II (4): 115-131.

—— (1895) Variation of *Vanessa urticae* in Ireland. *Entomologist* **28**: 84.

Webb, M. R. and Pullin, A. S. (1996) History of establishment attempts with the Large Copper Butterfly *Lycaena dispar* (Haworth) (Lep.: Lycaenidae). *Entomologist's Rec. J. Var.* **108**: 321-327.

Wedd, D. (2000) A guide to the Burren district of Counties Clare and Galway. *Atropos* **11**: 3-8.

—— (2004) Butterfly islands. *Atropos* **21**: 15-17. (includes Inisheer, Inishmaan and Great Blasket)

Weir, J. C. (2016) Intraspecific taxonomy in the Lepidoptera. *British Journal of Entomology and Natural History* **29**: 144-154.

Weir, J. J. (1892) Notes on *Pieris napi*, var. *bryoniae*. *Entomologist's mon. Mag.* **28**: 22-23.

Wenman, G. (2012) *Lycia zonaria* D. &. S. Belted Beauty (Lep.: Geometridae) in Britain and France. *Entomologist's Rec. J. Var.* **124**: 170-172.

West, B. K. (1982) Larvae of the Buff-tip: *Phalera bucephala* L. feeding on *Sorbus* species (Rosaceae) and aspen. *Entomologist's Rec. J. Var.* **94**: 198-199.

—— (1983) *Apatele euphorbiae* F.: one night of abundance. *Entomologist's Rec. J. Var.* **95**: 119.

—— (1986) Some aspects of the natural history of the Ruby Tiger Moth, *Phragmatobia fuliginosa* L. (Lep.: Arctiidae). *Entomologist's Rec. J. Var.* **98**: 129-134.

—— (1988) *Ceramica pisi* L. (Lep.: Noctuidae): larval food-plant preferences. *Entomologist's Rec. J. Var.* **100**: 10.

—— (1988) Records of Macrolepidoptera from Co. Mayo, Ireland. *Entomologist's Rec. J. Var.* **100**: 72. (*Lithacodia fasciana* L., *Pterapherapteryx sexalata* Retz.)

—— (1988) *Acronicta rumicis* L. (Lep.: Noctuidae) - larval foodplant in Ireland. *Entomologist's Rec. J. Var.* **100**: 94.

—— (1989) Some comments on the Brimstone Moth (*Opisthograptis luteolata* L.) (Lep.: Geometridae). *Entomologist's Rec. J. Var.* **101**: 167-172.

—— (1990) Some comments on *Rheumaptera hastata* L. (Lep.: Geometridae) in Ireland. *Entomologist's Rec. J. Var.* **102**: 17-19.

—— (1991) The Magpie Moth (*Abraxas grossulariata* L.); a change of status? *Entomologist's Rec. J. Var.* **103**: 89-92.

—— (1991) 1990 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **4**: 23-27. (Cox, W. and Summers, J.: *Lithosia quadra* L.; Pickles, A. J. and C. T.: *Acronycta euphorbiae myricae* Guen.; Skinner, B.: three species)

—— (1992) *Lasiocampa quercus* f. *callunae* Palmer (Lep.: Lasiocampidae) in Co. Clare, Ireland. *Entomologist's Rec. J. Var.* **104**: 57-60.

—— (1993) 1992 Annual exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **6**: 53-58. (Elliott, B.: three Irish species; Skinner, B.: *Eublemma ostrina* f. *carthami* H.-S. (Plate III, Figure 10); Wedd, D.: several species including possible second Irish record of *Archanara geminipuncta* Haw.)

—— (1994) *Odontoptera bidentata* Cl. (Lep.: Geometridae): larval foodplant in Ireland. *Entomologist's Rec. J. Var.* **106**: 72.

—— (1994) The time of appearance of *Lacanobia oleracea* L. (Lep.: Noctuidae) in the British Isles. *Entomologist's Rec. J. Var.* **106**: 81-84.

—— (1994) 1993 Annual Exhibition. British Macrolepidoptera. *British Journal of Entomology and Natural History* **7**: 149-154. (Elliott, B.: species from Clare and Galway; Forder, P.: original two specimens of *Odontognophos dumetata* subspecies *hibernica* Forder (Plate II, Fig. 12); Skinner, B.: *Hadena perplexa capsophila*; Skinner, B. and Elliott, B.: *Odontognophos dumetata*)

—— (1996) *Selidosema brunnearia* Vill. (Lep.: Geometridae): dimorphism in western Ireland and description of a new form. *Entomologist's Rec. J. Var.* **108**: 105-106.

—— (1996) New aberrations of British Lepidoptera. *Entomologist's Rec. J. Var.* **108**: 106-107.

West, B. K. (2008) *Trichopteryx carpinata* Borkh. (Lep.: Geometridae). Geographical variation, with reference to Kent, Westmorland and the Highlands of Scotland and descriptions of two hitherto undescribed aberrations. *Entomologist's Rec. J. Var.* **120**: 156-157.

—— (2008) *Cosmia trapezina* L. (Lep.: Noctuidae). Comments on variation and the description of a new form from Ireland. *Entomologist's Rec. J. Var.* **120**: 170-171.

Westgarth-Smith, A. R., Roy, D. B., Scholze, M., Tucker. A. and Sumpter, J. P. (2012) The role of the North Atlantic Oscillation in controlling U.K. butterfly population size and phenology. *Ecological Entomology* **37**: 221-232.

Westropp, S. (1893) The Clouded Yellow Butterfly (*Colias edusa*) in Cork. *Ir. Nat.* **2**: 301.

Westropp, W. S. D. (1919) *Colias edusa* in Co. Cork. *Ir. Nat.* **28**: 120.

—— (1925) *Pieris brassicae* larvae in January. *Entomologist* **58**: 39.

—— (1930) *Lygris associata* Bork. and *Thamnonoma wauaria* L. in Ireland. *Ir. Nat. J.* **3**: 56.

—— (1934) Southern notes on Lepidoptera. *Ir. Nat. J.* **5**: 17.

—— (1934) On rearing the Death's-Head Hawk-Moth. *Ir. Nat. J.* **5**: 18.

Whalley, P. E. S. and Tweedie, M. W. F. (1963) A revision of the British *Scoparias* (Lepidoptera: Pyralidae). *Entomologist's Gazette* **14**: 81-98, plates 2-12.

Whatmough, J. A. (1980) Butterfly monitoring scheme. *Scientific Report of the Murlough National Nature Reserve* **5** (1979): 21-33.

Wheeler, A. S. (1963) First visit to Ireland: a tour with some notes on the Lepidoptera. *Entomologist's Gazette* **75**: 271-274.

—— (1970) *Zygaena filipendulae* (Linnaeus) (Lep. Zygaenidae) attracted to *Lasiocampa quercus* (Linnaeus) (Lep., Lasiocampidae). *Entomologist's Gazette* **21**: 26.

—— (1971) On *Lasiocampa quercus* (Linnaeus) (Lep., Lasiocampidae). *Entomologist's Gazette* **22**: 226-228.

Wheeler, G. (1941-42) Notes on variation from the Worthing Museum Collection. *Entomologist's Rec. J. Var.* **53**: 55-56. **54**: 5-7.

Wheeler, W. C. E. (1901) *Oenistis* (*Gnophria*) *quadra* in Dublin. *Entomologist* **34**: 230.

Whelan, C. Blake (1945) Irish distribution of *Biston betularia* L. ab. *doubledayaria* Mill. *Entomologist* **78**: 174.

White, A. (1858) On a newly discovered moth in Ireland (*Notodonta bicolora*). *Proceedings of the Natural History Society of Dublin* **2**: 137-138.

White, W. Buchanan (1881) Some thoughts on the distribution of the British butterflies. *Entomologist* **14**: 265-277.

Wilding, R. (1914) (Lepidoptera). *Proceedings of the Lancashire and Cheshire Entomological Society* **38**: 15.

—— (1914) (*Lycaena icarus*). *Proceedings of the Lancashire and Cheshire Entomological Society* **38**: 17.

Wilkinson, D. S. (1935) *Euphydryas aurinia* (Rott.) from Ireland parasitised by *Apanteles bignellii* Marshall. *Proceedings of the Royal Entomological Society of London A* **10**: 62.

Williams, A. (1914) Early butterflies at Killarney. *Ir. Nat.* **23**: 160.

—— (1915) *Acherontia atropos* in Co. Mayo. *Ir. Nat.* **24**: 62.

Williams, C. B. (1927) (*Aglais urticae*). *Proceedings of the South London Entomological and Natural History Society* **1927-28**: 102.

Williams, C. B. (1951) Seasonal changes in flight direction of migrant butterflies in the British Isles. *Journal of Animal Ecology* **20**: 180-190.

Williams, C. B., Cockbill, G. F., Gibbs, M. E. and Downes, J. A. (1942) Studies in the migration of Lepidoptera. *Transactions of the Royal Entomological Society of London* **92**: 101-283.

Williams, E. (1876) *Colias edusa* near Dublin. *Entomologist* **9**: 182.

Williams, H. (1919) Random notes from North-East Ireland. *Entomologist's Rec. J. Var.* **31**: 53-56.

Williams, H. B. (1919) (*Aglais urticae*). *Proceedings of the South London Entomological and Natural History Society* **1919-20**: 78.

—— (1921) (*Polyommatus icarus*). *Proceedings of the South London Entomological and Natural History Society* **1921-22**: 31.

—— (1932) Notes on *Boarmia repandata* and *B. rhomboidaria*. *Proceedings of the South London Entomological and Natural History Society* **1932-33**: 1-10.

—— (1932) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1932-33**: 73.

—— (1933) (*Eumenis semele*). *Proceedings of the South London Entomological and Natural History Society* **1933-34**: 71.

—— (1938) (*Hadena dentina*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1938-39**: 34.

—— (1942) (*Pieris napi*). *Proceedings & Transactions of the South London Entomological and Natural History Society* **1942-43**: 37, 77.

—— (1946) The Irish form of *Leptidea sinapis* L. *Entomologist* **79**: 1-3.

Williams, R. P. (1856) (*Gonepteryx rhamni*). *Proceedings of the Natural History Society of Dublin* **1**: 29.

—— (1858) On the occurrence of *Colias edusa* in the County of Waterford. *Proceedings of the Natural History Society of Dublin* **2**: 17.

—— (1865) (*Colias edusa*). *Proceedings of the Natural History Society of Dublin* **5**: 9.

Williams, R. S. Gwatkin-. (1913) (Lepidoptera). *Proceedings of the South London Entomological and Natural History Society* **1913-14**: 135-136.

Wilson, C. and O'Donnell, M. (2009) *The Lepidoptera of County Wexford*. Wexford Naturalists' Field Club, North Slob, Wexford.

Wilson, C. J., Goodwin, J. and Bond, K. (2007) New Irish record of the Small Skipper Butterfly *Thymelicus sylvestris* (Poda) (Lepidoptera: Hesperiidae). *Ir. Nat. J.* **28**: 385-386.

—— (2009) Addition of Essex Skipper Butterfly (*Thymelicus lineola* (Ochsenheimer,1808)) (Lepidoptera: Hesperiidae), to the Irish list and deletion of previously reported occurrence of Small Skipper Butterfly *Thymelicus sylvestris* (Poda, 1761) in Ireland. *Ir. Nat. J.* **29** (2008): 133-134.

Wilson, D. (2017) Obituaries. Bernard Francis Skinner FRES 1939-2017. *British Journal of Entomology and Natural History* **30**: 13-19.



Wilson, J. F., Baker, D., Cheney, J., Cook, M., Ellis, M., Freestone, R., Gardner, D., Geen, G., Hemming, R., Hodgers, D., Howarth, S., Jupp, A., Lowe, N., Orridge, S., Shaw, M., Smith, B., Turner, A. and Young, H. (2018) A role for artificial night-time lighting in long-term changes in populations of 100 widespread macro-moths in UK and Ireland: a citizen-science study. *Journal of Insect Conservation* **22**: 189-196.

Wilson, J. S. (1917) *Agriades bellargus* in Ireland. *Entomologist* **50**: 237.

—— (1917) *Geometra vernaria* in Ireland. *Entomologist* **50**: 237.

Wilt, T. (1982) Melanismus und geographische variabilitat bei *Notodonta dromedarius* (Linne 1767) (Lepidoptera, Notodontidae). *Entomofauna* **1**: 73-94.

Wiltshire, E. P. (1947) Lepidoptera at Lough Erne, Co. Fermanagh. *Ir. Nat. J.* **9**: 21-22.

—— (1962) Studies in the geography of Lepidoptera, VII: theories of the origin of the West Palearctic and world faunae. *Entomologist's Rec. J. Var.* **74**: 29-39.

Winokur, L. (1996) Reply by the author. *British Journal of Entomology and Natural History* **9**: 163-164. (*Gonepteryx rhamni* released)

Wistow, S. (1992) The White Satin Moth (*Leucoma salicis* (L.)) (Lepidoptera), new to Co Dublin. *Ir. Nat. J.* **24**: 167.

Wolfe, J. J. (1893) Notes on certain species of *Vanessa*. *Entomologist's Rec. J. Var.* **4**: 269-270.

—— (1894) Larvae of *Vanessa atalanta*. A correction. *Ir. Nat.* **3**: 157.

—— (1896) Notes on the early stages of some British butterflies. *Entomologist's Rec. J. Var.* **8**: 4-5.

—— (1896) The black variety of the pupa of *Pararge megaera*. *Entomologist's Rec. J. Var.* **8**: 184.

—— (1896) Egg-laying in *Coenonympha pamphilus*. *Entomologist's Rec. J. Var.* **8**: 188-189.

—— (1896) Butterflies at Skibbereen. *Entomologist's Rec. J. Var.* **8**: 217.

—— (1896) Egg-laying of *Hipparchia semele*. *Entomologist's Rec. J. Var.* **8**: 266-267.

—— (1897) *Colias edusa* in Co. Cork. *Ir. Nat.* **6**: 282.

—— (1897) Caterpillars of *Hemarius tityus* (*bombyliformis*). *Ir. Nat.* **6**: 283.

—— (1897) Late appearance of *Pararge egeria*. *Entomologist's Rec. J. Var.* **9**: 184.

—— (1897) Hybernation of *Vanessa io*. *Entomologist's Rec. J. Var.* **9**: 205.

—— (1897) On the hybernating larvae of *Hipparchia semele*. *Entomologist's Rec. J. Var.* **9**: 207.

—— (1897) On the hybernating larvae of *Coenonympha pamphilus*. *Entomologist's Rec. J. Var.* **9**: 207.

—— (1899) Migratory butterflies in South-West Cork. *Ir. Nat.* **8**: 218-220.

Woodforde, F. C. (1920-25) Some notes on the Collection of British Macrolepidoptera in the Hope Department of the Oxford University Museum. *Entomologist* **53**: 152-157, 173-177, 199-201. **54**: 90-93, 285-289. **55**: 12-14. **58**: 177-180.

Woodforde, F. C., Ford, E. B. and Prout, L. B. (1928) Varieties of British Lepidoptera in the Hope Department, Oxford University Museum. *Transactions of the Entomological Society of London* **76**: 523-530.



Woodrow, W., Nelson, B., Allen, D., Glanville, E., Hughes, M., McLaughlin, V., Mellon, C. and Waring, P. (2018) The distribution and ecology of *Gnophos dumetata* Treitschke, 1827 (Lepidoptera: Geometridae) in the Burren of western Ireland. *Entomologist's Gazette* **69**: 1-14.

Workman, W. H. (1918) Great increase of butterflies and moths in Ireland. *Ir. Nat.* **27**: 11.

—— (1936) Convolvulus Hawk-Moth in Belfast. *Ir. Nat. J.* **6**: 25.

Worms, C. de (1942) Introduction to a discussion on the Lithosiinae. *Proceedings & Transactions of the South London Entomological and Natural History Society* **1942-43**: 70-74.

Worms, C. G. M. de (1948) Aberration of *Anthocharis cardamines*. *Entomologist* **81**: 244-245.

—— (1949) British Lepidoptera collecting, 1948. *Entomologist* **82**: 121-129.

—— (1951) New additions to British Macrolepidoptera during the past half century. *Entomologist's Gazette* **2**: 153-168, plate 4.

—— (1962) A review of the occurrence of *Utetheisa pulchella* (Lep., Arctiidae) in the British Isles during 1961. *Entomologist* **95**: 149-152.

—— (1965) *Plusia ni* Hubn. in Co. Kerry. *Entomologist's Rec. J. Var.* **77**: 289.

—— (1965) *Colias croceus* Fourc. and *Pyrameis cardui* L. in Eire. *Entomologist's Rec. J. Var.* **77**: 293-294.

—— (1966) Southern and Western Ireland, August-September, 1965. *Entomologist's Rec. J. Var.* **78**: 68-72.

—— (1969) British Lepidoptera collecting, 1968. *Entomologist* **102**: 133-142.

—— (1971) Collecting Lepidoptera in Britain during 1970. *Entomologist's Rec. J. Var.* **83**: 187-199.

—— (1971) (Communications: *Perizoma taeniata* Steph. (Geometridae), *Mesoacidalia charlotta* Haw. (Nymphalidae)). *Proceedings and Transactions of the British Entomological and Natural History Society Soc.* **4**: 4.

—— (1973) Memories of collecting in Britain during the past fifty years. *Proceedings and Transactions of the British Entomological and Natural History Society* **6**: 1-15. (collected in Ireland)

—— (1975) A review of the immigration of *Hyles gallii* Rott. during 1973 with special reference to records for 1972 and 1974. *Entomologist's Rec. J. Var.* **87**: 232-239, plate

—— (1978) Further recent additions to the British Macrolepidoptera with a review of new migrant species and the present status of others already recorded. *Entomologist's Gazette* **29**: 17-39, plate 2.

—— (1979) A review of Lepidoptera in Britain during 1978. *Entomologist's Rec. J. Var.* **91**: 58-60.

Worms, C. G. M. de and Ellison, R. E. (1955) A visit to the Burren, Co. Clare and Tramore, Co. Waterford, August, 1954. *Entomologist* **88**: 99-106.

—— (1956) *Platyptilia calodactyla* in the Burren: a correction. *Entomologist* **89**: 113.

—— (1957) Ireland revisited: June and July 1956. *Entomologist* **90**: 83-91.

Wright, -. (1855) On fungi parasitic on insects; with particular reference to some lately discovered Irish specimens. *The Natural History Review (Proceedings of Societies)* **2**: 55-59.

Wright, A. E. (1938) Natural habits of *Hydriomena* (*Perizoma*) *taeniata* Steph. (Lep. Geometridae). *Entomologist* **71**: 198-200.

—— (1938) Notes on breeding *Mnesipatris filicivora* (Meyrick). *Entomologist* **71**: 142-143.

—— (1941) The systematic position of *Mnesipatris filicivora* Meyrick. *Entomologist* **74**: 63-64.

Wright, E. P. (1856) (*Gonepteryx rhamni*). *Proceedings of the Natural History Society of Dublin* **1**: 8-29.

—— (1856) *Anthrocera minos*. *The Natural History Review (Proceedings of Societies)* **3**: 73-75.

—— (1865) Notes on *Colias edusa*. *Proceedings of the Natural History Society of Dublin* **1**: 8-29.

Wright, W. (1866) *Lithosia caniola* and *Dianthoecia capsophila* near Waterford. *Entomologist* **3**: 152.

—— (1867) *Dianthoecia caesia* in Ireland. *Entomologist* **3**: 349.

Wright, W. S. (1933) Clouded Yellow Butterfly in Co. Down. *Ir. Nat. J.* **4**: 245.

—— (1951) Moth new to British and Irish lists in Co. Clare. *Ir. Nat. J.* **10**: 135.

—— (1954) Some Macrolepidoptera from Co. Antrim, Northern Ireland. *Entomologist's Gazette* **5**: 237-242.

—— (1955) Some Macrolepidoptera from Co. Down, Northern Ireland. *Entomologist's Gazette* **6**: 228-230.

—— (1956) Some Macrolepidoptera from Co. Armagh, Northern Ireland. *Entomologist's Gazette* **7**: 83-85.

—— (1972) Report on migrant insects in Ireland in 1971. *Ir. Nat. J.* **17**: 193-194.

—— (1973) Report on migrant insects in Ireland for 1972. *Ir. Nat. J.* **17**: 414.

—— (1974) Report on migrant insects for 1973. *Ir. Nat. J.* **18**: 80.

—— (1975) Report on migrant insects for 1974. *Ir. Nat. J.* **18**: 251.

Wykes, N. G. (1932) (*Pieris napi*). *Proceedings of the South London Entomological and Natural History Society* **1933-34**: 108.

Young, M. R. (2007) 2006 Annual Exhibition. British Microlepidoptera. *British Journal of Entomology and Natural History* **20**: 164-168. (Clancy, S.: *Glyphipterix schoenicolella*)



CHAPTER 12. *MECOPTERA,*MEGALOPTERA & *NEUROPTERA

Alexander, K. N. A. (2004) New vice-county records for lacewings (Neuroptera) from Northern Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 143-146.

Anderson, R. (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337. (Mecoptera)

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Aspock, H., Aspock, U. and Holzel, H. (1978) Megaloptera et Planipennia. Pp 329-332. *In* Illies, J. (ed.) *Limnofauna Europae*.

Barnard, P. C. (1977) *Sialis nigripes* Pictet (Megaloptera, Sialidae) an alder-fly new to Britain and Ireland. *Entomologist's Gazette* **28**: 269-274.

Barnard, P. C., O'Connor, J. P. and O'Connor, M. A. (1987) Some records of Irish Neuroptera (Insecta). *Bulletin of the Irish Biogeographical Society* **10**: 72-80.

Barnard, P. C., O'Connor, J. P. and Speight, M. C. D. (1991) A review of published distribution data for Irish Neuroptera (Insecta), together with additional records and a check-list of the Irish species. *Bulletin of the Irish Biogeographical Society* **14**: 109-123.

Beaumont, A. (1893) *Micromus aphidivorus* in Co. Wexford. *Entomologist's mon. Mag.* **29**: 263.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92. (Neur.)

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53) (Megal.)

Elliott, J. M. (1996) British freshwater Megaloptera and Neuroptera: a key with ecological notes. *Scientific Publications of the Freshwater Biological Association* **No. 54**.

—— (2009) Freshwater Megaloptera and Neuroptera of Britain and Ireland: keys to adults and larvae, and a review of their ecology. *Scientific Publications of the Freshwater Biological Association* **No. 65**.

Elliott, J. M., O'Connor, J. P. and O'Connor, M. A. (1979) A key to the larvae of Sialidae (Insecta: Megaloptera) occurring in the British Isles. *Freshwater Biology* **6**: 511-514.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9. (Megal.)

Fraser, F. C. (1959) Mecoptera, Megaloptera and Neuroptera. *Handbooks for the Identification of British Insects* **1**(12/13): 1-40.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Good, J. (1976) More lacewings. *Bulletin of the Amateur Entomologists' Society* **35**: 48.

Good, J. A. (1975) Lacewings in Ireland. *Bulletin of the Amateur Entomologists' Society* **34**: 115.

Good, J. A. and Boxshall, M. (2014) Reassessment of early nineteenth century Tardy records in the Dublin University Zoological Museum: Part 2 (Coleoptera, Lepidoptera, Neuroptera and biographical note). *Bulletin of the Irish Biogeographical Society* **38**: 263-271.

Greer, T. (1934) The lacewing fly, *Osmylus chrysops* Fab. (*maculatus* L.), in East Tyrone. *Ir. Nat. J.* **5**: 19.

Hagen, H. A. (1858) Synopsis of the British Plannipennes. *The Entomologist's Annual* **1858**: 17-33.

Halbert, J. N. (1907) Irish Field Club Union. Cork Conference. Neuroptera. *Ir. Nat.* **16**: 189-190. (Mecoptera)

—— (1908) (*Psectra diptera*). *Ir. Nat.* **17**: 102.

—— (1908) Neuroptera. Pp 170-171. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1912) Clare Island Survey. 27. Neuroptera. *Proceedings of the Royal Irish Academy* **31**(27): 4pp.

InvertebrateIreland Online (2006) Irish Megaloptera (Alderflies). National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=6>

—— (2006) Irish Mecoptera (Scorpion flies). National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=8>

Irish Biogeographical Society (2020) Lacewings (Neuroptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/64>

Jepson, J. E. (2020) Neuropterida of Ireland. *Lacewing Digital Library, Research Publication* **No. 6**. <https://lacewing.tamu.edu/Ireland/Main.>

Johnson, W. F. (1893) Additions to the Irish List of Neuroptera. *Entomologist's mon. Mag.* **29**: 287. (Neur., Plec., Trich.)

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82. (Megal., Neur.)

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp.

Kirby, P. and Welch, R. C. (1990) Notes on the habits and habitats of *Psectra diptera. Neuro News* **No. 7**: 4-10.

Killington, F. J. (1929) A synopsis of British Neuroptera. *Transactions of the Entomological Society of the South of England* **5**: 1-36, plates I-VI.

—— (1932) The life-history of *Hemerobius simulans* Walker (=*orotypus* Wall.) (Neuroptera, Hemerobiidae). *Entomologist's mon. Mag.* **68**: 176-180.

—— (1932) The life-history of *Hemerobius atrifrons* McLach. (Neuroptera). *Entomologist* **65**: 201-203.

—— (1932) The Dale Collection of British Neuroptera. *Entomologist's mon. Mag.* **68**: 225-230.

—— (1934) On the life-histories of some British Hemerobiidae (Neur.). *Transactions of the Society of British Entomology* **1**: 119-134, plates xiv-xvii.

—— (1936-1937) *A Monograph of the British Neuroptera*. Volumes I-II. Ray Society Monographs. Ray Society, London.

—— (1946) On *Psectra diptera* (Burm.) (Neur. Hemerobiidae), including an account of its life-history. *Entomologist's mon. Mag.* **79**: 161-176.

Killington, F. J. and Kimmins, J. E. (1932) On the male genital structure of *Psectra diptera* Burm. (Neur.), with some remarks on the wing venation. *Entomologist's mon. Mag.* **68**: 153-156.

Kimmins, D. E. (1935) *Psectra diptera* Burm. (Neur., Hemerobiidae) in Britain. *Journal of the Society for British Entomology* **1**: 64. (Wexford record)

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

—— (1900) *Psectra diptera*, Burm., in Ireland. *Entomologist's mon. Mag.* **36**: 288.

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.

Makarkin, V. N. and Monserrat, V. J. (2007) Notes on the identity of *Hemerobius amurensis* Navás, 1929 (Neuroptera, Hemerobiidae). *Deutsche Entomologische Zeitschrift* **2**: 267-270. (*H. marginatus*)

McClenaghan, I. (1955) Giant lacewing in Co. Antrim. *Ir. Nat. J.* **11**: 346.

McGowan, B. (1903) *Psectra diptera*, Burm., in Scotland. *Entomologist's mon. Mag.* **39**: 14.

McLachlan, R. (1868) IX. A Monograph of the British Neuroptera-Planipennia. *Transactions of the Entomological Society of London* **16**: 145-224.

—— (1899) Notes on certain Palaearctic species of the Genus *Hemerobius*. *Entomologist's mon. Mag.* **35**: 127-133.

—— (1903) A few "Neuroptera" from South-West Ireland. *Entomologist's mon. Mag.* **39**: 14.

Morton, K. J. (1892) Notes on Trichoptera and Neuroptera from Ireland. *Entomologist's mon. Mag.* **28**: 301. (Neur., Odon., Psoc., Trich.)

Mosely, M. E. (1930) Irish Trichoptera, Neuroptera, etc. *Entomologist* **63**: 30-34.

Nelson, B. (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85. (Megal.)

O'Connor, J. P. (1983) *Chrysopa abbreviata* (Neuroptera) confirmed as an Irish insect. *Ir. Nat. J.* **21**: 140.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2003) Wax flies (Neuroptera: Coniopterygidae) reared from cola nut and marble galls, including *Coniopteryx borealis* Tjeder new to Ireland. *Entomologist's Gazette* **54**: 207-209.

—— (2008) A sixth Irish specimen of *Psectra diptera* (Burmeister) (Neuroptera: Hemerobiidae). *Ir. Nat. J.* **29**: 47-48.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp. (Neur.)

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165. (Neur.)

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Norton, M. A. (1978) Further notes on the aquatic invertebrates of Hare Island and its environs, Lough Ree, Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **2**: 37-39. (includes *Sialis nigripes*)

O'Connor, J. P. and O'Grady, M. F. (1990) Observations on the distribution of *Sialis nigripes* Pictet (Megaloptera) in Ireland. *Entomologist's Gazette* **41**: 109-110.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21.

Plant, C. W. (1994) *Provisional atlas of the lacewings and allied insects (Neuroptera, Megaloptera, Raphidioptera and Mecoptera) of Britain and Ireland.* NERC Institute of Terrestrial Ecology, Monks Wood. 208pp.

—— (1997) A key to the adults of the British lacewings and their allies (Neuroptera, Megaloptera, Raphidioptera and Mecoptera). *Field Studies* **9**: 179-269.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Sheridan, H., Finn, J. A. and O'Donovan, G. (2009) Botanical rejuvenation of field margins and benefits for invertebrate fauna on a drystock farm in County Longford. *Biology and Environment: Proceedings of the Royal Irish Academy* **109**B: 95-106. (Neur.)

Speight, M, C D. (1976) *Badister meridionalis*, *Megasyrphus annulipes* and *Wesmaelius quadrifasciatus*: insects new to Ireland. *Ir. Nat. J.* **18**: 303-304.

—— (1977) Athlone Field Meeting: insects collected on and near the shores of Lough Ree. *Bulletin of the Irish Biogeographical Society* **1**: 27-36. (*Sialis nigripes*)

—— (1978) A return visit to Hare Island. *Bulletin of the Irish Biogeographical Society* **2**: 40-41.

—— (1979) *Anoplonyx destructor*, *Hemerobius pini* and *Pamphilius hortorum*: insects new to Ireland. *Ir. Nat. J.* **19**: 302-303.

—— (1983) Lacewings: Order Neuroptera. Pp 170-171, 498. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60. (Megal.)

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - a modern coastal natural history*. The Royal Dublin Society, Dublin. (Neur.)

Speight, M. C. D. and Legrand, J. (1984) *Coenagrion lunulatum* (Odonata): morphology of the female and notes on a second Irish colony. *Ir. Nat. J.* **21**: 237-242.

Stelfox, A. W. (1969) A second Irish record for the lacewing, *Psectra diptera* (Burmeister). *Ir. Nat. J.* **16**: 240.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology.* The Marine Institute, Dublin.

Whittington, A. E. (2002) Resources in Scottish Neuropterology. *Acta Zoologica Academiae Scientiarum Hungaricae* **48** (Supplement 2): 371-387. (Ireland mentioned for several species including an erroneous *Dilar meridionalis*)

Withers, P. (1992) A further occurrence of *Psectra diptera* (Burmeister) (Insecta, Neuroptera) in Ireland. *Ir. Nat. J.* **24**: 79.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.

CHAPTER 13. *ODONATA

Anon. (1938) (Review of Longfield's Book). *Ir. Nat. J.* **7**: 28-29.

—— (2011) Dragonflies. *Biodiversity Ireland* **Issue 7**: 13. (recording)

Anderson, R. (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

Anderson, R., Mantell, A. and Nelson, B. (2017) An invertebrate survey of Scragh Bog, Co Westmeath. *Irish Wildlife Manuals* **No. 96**. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Attlee, H. G. (1957) *Anax imperator* (Leach) in Ireland. *Entomologist* **90**: 106.

Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248.

Baker, R. A. (2007) What was the British list like 120 years ago? Robert McLachlan's 1884 list of Odonata compared with today's lists. *Journal of the British Dragonfly Society* **23**: 52-57. (*Coenagrion lunulatum*)

—— (2011) Parasites of damselflies and dragonflies: a review of recent work. *Journal of the British Dragonfly Society* **25**: 27-40. (*Forcipomyia paludis*)

—— (2013) Cynthia Evelyn Longfield (1896-1991) - the Irish connection and collections. *Journal of the British Dragonfly Society* **29**: 23-39.

Balfour-Browne, F. (1907) Irish Field Club Union. Cork Conference. Odonata. *Ir. Nat.* **16**: 300-301.

Batty, P. (2014) Species Review 8: *Somatochlora arctica* (Zetterstedt, 1840) (The Northern Emerald). *Journal of the British Dragonfly Society* **30**: 32-53.

Baynes, E. S. A. (1955) Migration of the dragonfly *Sympetrum danae* Sulzer. *Ir. Nat. J.* **11**: 255.

Blackwood, G. G. (1928) Some dragonfly records from Co. Cavan. *Ir. Nat. J.* **2**: 89-91.

Bond, K. G. M. (1989) *Aeshna cyanea* (Müller) (Odonata: Aeshnidae) a dragonfly new to Ireland. *Ir. Nat. J.* **23**: 73-74.

Boudot, J.-P. and Kalkman, V. J. (2015) *Atlas of the dragonflies and damselflies of Europe*. KNNV, Utrecht.

Brooks, S. and Cham, S. (2014) *Field guide to the dragonflies and damselflies of Great Britain and Ireland*. British Wildlife Publishing.

Buchanan, K. (1978) Dragonflies at Brackagh Bog, Co. Armagh. *Ir. Nat. J.* **19**: 287.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Carpenter, G. H. (1902) Neuroptera. Pp 215-216. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1920) *Aeschna juncea* at Inishtrahull. *Ir. Nat.* **29**: 132.

Carter, D. J. (1967) The Lepidoptera, Trichoptera and Odonata of Cape Clear Island. *Cape Clear Bird Observatory Report* **8**: 45-46.

Centre for Data and Environmental Recording (CEDaR) (2020) Dragonfly Ireland, National Biodiversity Data Centre, Ireland. <https://maps.biodiversityireland.ie/Dataset/187>

Cham, S., Brooks, S. J. and McGeeney, A. (1995) Distribution and habitat of the Downy Emerald Dragonfly *Cordulia aenea* (L.) (Odonata: Corduliidae) in Britain and Ireland. *Journal of the British Dragonfly Society* **11**: 31-35.

Cham, S., Nelson, B., Parr, A., Prentice, S., Smallshire, D. and Taylor, P. (2014) *Atlas of Dragonflies in Britain and Ireland*. Field Studies Council for the Biological Records Centre, Centre for Ecology & Hydrology & the British Dragonfly Society.

Chandler, D. (2020) *A beginner's guide to dragonflies & damselflies of Britain & Ireland.* Pisces Publications, Newbury.

Chelmick, D. (2010) Species review 4: The Scarce Emerald Damselfly *Lestes dryas* Kirby with notes on the family Lestidae in the western Palearctic. *Journal of the British Dragonfly Society* **26**: 66-83.

Chelmick, D. G. (ed.) (1979) *Provisional atlas of the insects of the British Isles. Part 7. Odonata Dragonflies.* Second edition. Biological Records Centre, Huntingdon.

Chelmick, D. G. and Moore, N. W. (2009) The Scarce Emerald Damselfly *Lestes dryas* Kirby in east Sussex 1940 to 2007: an account of species extinction through changing agricultural practice. *Journal of the British Dragonfly Society* **25**: 27-40. (Irish status mentioned)

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Corbet, P. S., Longfield, C. and Moore, N. W. (1960) *Dragonflies*. The New Naturalist. Collins, London. (Irish distribution maps)

Cotton, D. C. F. (1981) Some new records and an appraisal of the published records for *Ischnura pumilio* (Charpentier) (Odonata: Coenagriidae) in Ireland. *Entomologist's Gazette* **32**: 59-64.

—— (1982) *Coenagrion lunulatum* (Charpentier) (Odonata: Coenagrionidae) new to the British Isles. *Entomologist's Gazette* **33**: 213-214.

Cotton, D. C. F. (1982) The distribution of Odonata and Orthoptera in Ireland. *An Foras Forbartha, Environmental Education Newsletter* **19**: 20-23.

—— (1989) The ecology of Inishmurray. Pp 16-50. *In* Cotton, D. C. F. (ed.) *The future of Inishmurray.* Regional Technical College, Sligo. (Odon. p. 29)

Crory, A. and Anderson, R. (2013) Site Guide: Murlough Nature Reserve, Co. Down, Northern Ireland. *Atropos* **50**: 17-25.

D'Arcy, G. (1992) Fauna observed on Clare Island, Co Mayo, June 14-18 1990. *Ir. Nat. J.* **24**: 33-34. (Dipt., Lep., Odon.)

Dannreuther, T. (1941) Unpublished records of dragonfly migrations wanted. *Entomologist's Rec. J. Var.* **53**: 94-95.

—— (1942) Migration records, 1941. *Entomologist* **75**: 55-63.

—— (1943) Migration records, 1942. *Entomologist* **76**: 73-80.

de Selys Longchamps, E. (1846) Revision of the British Libellulidae. *Annals and Magazine of Natural History* **18**: 217-227.

Dijkstra, K.-D. B., Branson, A. and Lewington, R. (2005) A proposal for European standard names for the Odonata of Europe, Turkey and northwest Africa. *Atropos* **25**: 37-43.

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Drinan, T., Nelson, B., Tickner, M., O'Donnell, G., Harrison, S. and O'Halloran, J. (2011) First discovery of larvae of the Downy Emerald *Cordulia aenea* (L.) in Ireland and the species' use of lakes in treeless blanket bog in Connemara, Co. Galway. *Journal of the British Dragonfly Society* **27**: 1-12.

Drinan, T. J., Foster, G., Nelson, B. and O'Halloran, J. (2013) Macroinvertebrate assemblages of peatland lakes: Assessment of conservation value with respect to anthropogenic land-cover change. *Biological Conservation* **158**: 175-187.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53)

Eversham, B. C. (1994) Using invertebrates to monitor land use change and site management. *British Journal of Entomology and Natural History* **7** (suppl. 1): 36-45. (*Sympetrum danae*)

Faris, R. C. (1943) A dragonfly new to Ireland, *Sympetrum fonscolombii* Selys. *Ir. Nat. J.* **8**: 114.

Faris, R. C. and O'Rourke, F. J. (1946) *Orthetrum cancellatum* L., a dragonfly new to Ireland, and other dragonfly notes from Connaught. *Ir. Nat. J.* **8**: 387-390.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Fisher, K., Nelson, B. and Baars, J.-R. (2015) Motorway attenuation ponds make a significant contribution to the landscape biodiversity of mobile aquatic insect groups. Conference: *ENVIRON* (2015) The 25th environmental researchers' colloquium. At: Sligo IT, Sligo, Ireland.

Fitzpatrick, Ú., Regan, E. and Lysaght, L. (2011) Ireland's biodiversity in 2010. *Biodiversity Ireland* **Issue 7**: 4-5.

Foot, A. W. (1870) (Dragonflies from Co. Wicklow). *Proceedings of the Natural History Society of Dublin* **6**: 31.

Fox, A. D. (1990) The flight period of *Ischnura pumilio* (Charpentier) in Britain and Ireland. *Journal of the British Dragonfly Society* **6**: 3-7.

Fraser, F. C. (1941) Historical, biological and ecological notes on *Ischnura pumilio* (Charp.) (Odonata). *Journal of the Society for British Entomology* **2**: 110-116.

—— (1949) Odonata. *Handbooks for the Identification of British Insects* **1**(10): 1-48.

Gäde, G. and Marco, H. G. (2005) The adipokinetic hormones of Odonata: a phylogenetic approach. *Journal of Insect Physiology* **51**: 333-341. (*Calopteryx splendens* and *Aeshna grandis* from the vicinity of Kilkenny)

Gardner, A. E. (1951) The life history of *Sympetrum danae* (Sulzer) = *S. scoticum* (Donovan) (Odonata). *Entomologist's Gazette* **2**: 109-127.

—— (1952) The life history of *Lestes dryas* Kirby (Odonata). *Entomologist's Gazette* **3**: 4-26.

—— (1953) The life-history of *Libellula depressa* Linn. (Odonata). *Entomologist's Gazette* **4**: 175-201.

—— (1954) A note on the colour variation of *Ischnura elegans* (Van der Lind.) (Odonata: Coenagriidae). *Entomologist's Gazette* **5**: 82-84.

—— (1954) A key to the larvae of the British Odonata II. *Entomologist's Gazette* **5**: 193-213.

—— (1955) A study of the genitalia of the two species *Sympetrum nigrescens* Lucas and *S. nigrifemur* (Selys) with notes on their distribution. (Odonata: Libellulidae). *Entomologist's Gazette* **6**: 86-108.

—— (1955) An apparent migration of *Sympetrum danae* (Sulz.) (Odonata) in Ireland. *Entomologist's Gazette* **6**: 149.

—— (1956) Recent records of *Sympetrum nigrescens* Lucas (Odonata: Libellulidae). *Entomologist's Gazette* **7**: 95.

Gardner, A. E. and MacNeill, N. (1950) The life history of *Pyrrhosoma nymphula* (Sulzer) (Odonata). *Entomologist's Gazette* **1**: 163-182.

—— (1952) Separation of *Sympetrum striolatum* (Charp.) and *S. sanguineum* (Mueller) (Odonata - Libellulidae). *Entomologist's Gazette* **3**: 167-169.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Good, J. A. (2001) Farms as biogeographical units: 1. Habitats and faunal changes as influenced by farmer decision-making on a mixed farm in south Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **25**: 220-247.

—— (2009) Local and regional studies of Cryptobiota: esoteric stamp collecting or essential ecology? *Bulletin of the Irish Biogeographical Society* **33**: 115-169.

Goyvaerts, P. (1979) *Cordulia aenea* (Odonata: Corduliidae) a new county record. *Ir. Nat. J.* **19**: 329.

Graves, P. P. (1947) Odonata at Killarney. *Ir. Nat. J.* **9**: 61-63.

—— (1948) Irish Odonata in 1947. *Ir. Nat. J.* **9**: 150.

Halbert, J. N. (1908) Neuroptera. Pp 170-171. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1912) Clare Island Survey. 27. Neuroptera. *Proceedings of the Royal Irish Academy* **31**(27): 4pp.

—— (1914) (*Hemianax ephiphiger*). *Ir. Nat.* **23**: 103.

Hammond, C. O. (1977) *The dragonflies of Great Britain and Ireland.* The Curwen Press, London.

Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 249-263.

Harrington, R., Carroll, P., Carty, A. H., Keohane, J. and Ryder, C. (2007) Integrated Constructed Wetlands: concept, design, site evaluation and performance. *International Journal of Water* **3**: 243-256.

Harrison, S. (2014) Never mind the gap: climate, rather than insularity, may limit Ireland's species richness. Pp 107-123. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp.

Haynes, R. F. and Hillis, J. P. (1985) Report on migrant insects in Ireland for 1984. *Ir. Nat. J.* **21**: 505-506.

Hayter-Hames, J. (1991) *Madam dragonfly: the life and times of Cynthia Longfield*. Pentland Press, Edinburgh.

Healy, B. (1997) Long-term changes in a brackish lagoon, Lady's Island Lake, South-East Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 33-51.

Healy, B., Bates, R. and McGrath, D. (1982) Marine fauna of County Wexford - 5. Lady's Island Lake. *Ir. Nat. J.* **20**: 510-526.

Heath, J. (ed.) (1978) *Provisional atlas of the insects of the British Isles. Part 7. Odonata Dragonflies.* Biological Records Centre, Huntingdon.

Hewetson, A. and O'Rourke, F. J. (1960) The dragonflies of the Gearagh, West Cork. *Proceedings of the Royal Irish Academy* **61**B: 177-186.

Hobby, B. M. (1932) The prey of British dragonflies. *Transactions of the Entomological Society of the South of England* **8**: 65-76.

Hyatt, K. H. (1992) Cynthia Evelyn Longfield (1896-1991). *London Naturalist* **No. 71** (1992): 189-192.

InvertebrateIreland Online (2006) Irish Odonata (Dragonflies & Damselflies). National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=3>

Johnson, W. F. (1924) *Aeschna grandis* L. at Belfast. *Entomologist's mon. Mag.* **60**: 139.

Johnston, J. H. (1905) Tame dragon-flies. *Ir. Nat.* **14**: 43.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kemp, S. W. (1909) Dragon-flies in Co. Kerry. *Ir. Nat.* **18**: 55.

Killington, F. J. and Bathe, E. C. (1947) Acarine parasites of Odonata. II. *Entomologist's mon. Mag.* **83**: 116-124.

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

—— (1895) *Lestes nympha*, Selys, near Athlone. *Entomologist's mon. Mag.* **31**: 120-121.

—— (1902) *Ischnura pumilio*, Chp., in Ireland. *Entomologist's mon. Mag.* **38**: 186.

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.

Langham, C. (1920) Some Irish records of dragonflies. *Ir. Nat.* **29**: 11-12.

Lavery, T. A. (1991) Report on migrant insects in Ireland for 1990. *Ir. Nat. J.* **23**: 458-461.

Longfield, C. (1937) *The dragonflies of the British Isles.* First edition. Frederick Warne, London.

—— (1949) The breeding status of *Aeshna mixta* Latreille (Odonata) and notes on the evidence of breeding in *Sympetrum flaveolum* (L.) and *S. fonscolombii* (Selys). *Journal of the Society for British Entomology* **3**: 84-88.

—— (1949) *The dragonflies of the British Isles.* Second edition. Frederick Warne, London.

—— (1951) "The dragonflies of the British Isles, 1949" Addenda. *Entomologist* **84**: 83-84.

—— (1954) The British dragonflies (Odonata) in 1952 & 1953. *Entomologist* **87**: 87-91.

—— (1957) Notes on the British Odonata (dragonflies) for 1954 and 1955. *Entomologist* **90**: 44-49.

—— (1964) Some distribution records of the British dragonflies (Odonata), for the years 1962 and 1963. *Entomologist* **97**: 145-146.

Longfield, C. E. (1929) New Irish dragonfly record. *Ir. Nat. J.* **2**: 182.

—— (1948) A vast immigration of dragonflies into the South Coast of Co. Cork. *Ir. Nat. J.* **9**: 133-141.

Lonsdale, D. (ed.) (2008) A call to defend the right to collect voucher specimens. *Invertebrate Conservation News* **No. 55**: 5-7. (incident involving Robert Thompson and *Anax imperator*)

Lucas, W. J. (1900) *British Dragonflies (Odonata)*. L. Upcott Gill, London.

—— (1907) Dragonfly Seasons of 1905 and 1906. *Entomologist* **40**: 30-33.

—— (1907) *Lestes dryas*, Kirb., in Ireland. *Entomologist* **40**: 66.

—— (1908-09) Notes on the British dragonflies of the "Dale Collection". *Entomologist's mon. Mag.* **44**: 198-203. **45**: 79-83.

—— (1912) British Odonata in 1911. *Entomologist* **45**: 171-173.

—— (1914) British Odonata in 1913. *Entomologist* **47**: 77-82.

—— (1916) British Odonata in 1915. *Entomologist* **49**: 204-206.

—— (1920) Notes on British Odonata, 1919. *Entomologist* **53**: 205-209.

—— (1925) Notes on British Paraneuroptera (Odonata) in 1924. *Entomologist* **58**: 113-118.

—— (1926) Notes on British Paraneuroptera in 1925. *Entomologist* **59**: 153-157.

—— (1929) Paraneuroptera in Ireland, 1928. *Entomologist* **62**: 10-11.

—— (1929) *Sympetrum sanguineum* Mull. (Paraneuroptera) in Ireland. *Entomologist* **62**: 92.

—— (1929) Notes on British Paraneuroptera in 1928. *Entomologist* **62**: 217-219.

MacNeill, N. (1948) Dragonfly notes from Cos. Meath and Dublin. *Ir. Nat. J.* **9**: 180.
—— (1949) Distribution of dragonflies in Ireland. *Ir. Nat. J.* **9**: 231-241.
—— (1949) Odonata - Irish distribution. *Ir. Nat. J.* **9**: 310-311.
—— (1949) Odonata - Irish distribution. *Ir. Nat. J.* **9**: 339.
—— (1950) The life history of *Pyrrhosoma nymphula* (Sulzer) (Odonata). *Entomologist's Gazette* **1**: 163-182.
—— (1950) Odonata - Irish distribution. *Ir. Nat. J.* **10**: 17-20.
—— (1950) Key to nymphs of Coenagriidae - corrigenda. *Ir. Nat. J.* **10**: 115-116.
—— (1950) Odonata - Irish distribution. *Ir. Nat. J.* **10**: 44-45.
—— (1950) Odonata - Irish distribution. *Ir. Nat. J.* **10**: 76.
—— (1950) Odonata - Irish distribution. *Ir. Nat. J.* **10**: 98-99.
—— (1950) Dragonflies - a key to the nymphs of the Coenagriidae common in Ireland. (Odonata - Zygoptera). *Ir. Nat. J.* **10**: 32-38.
—— (1950) The nymph of *Lestes sponsa* (Hansemann) (Odonata, Lestidae). *Entomologist's mon. Mag.* **86**: 103-109.
—— (1950) The nymph of *Enallagma cyathigerum* (Charpentier). *Entomologist's mon. Mag.* **86**: 234-242.
—— (1950) Habitats of *Lestes sponsa* (Hansem.) (Odonata, Lestidae) in Ireland. *Entomologist's mon. Mag.* **86**: 312.
—— (1950) *Ischnura elegans* (Lin.) (Odonata) head-down eclosion. *Entomologist's Gazette* **1**: 156.
—— (1951) Separation characters for nymphs of *Lestes dryas* Kirby and *L. sponsa* (Hansemann) (Odonata - Lestidae). *Entomologist* **84**: 40-42.
—— (1951) Further notes on the nymphs of *Lestes dryas* Kirby and *L. sponsa* (Hansemann) (Odonata: Lestidae). *Entomologist* **84**: 156-157.
—— (1951) The dragonfly *Erythromma najas* (Hansemann) "The red-eyed damsel-fly" (Odonata - Zygoptera - Coenagriidae). *Ir. Nat. J.* **10**: 122-125.
—— (1951) Odonata - Irish distribution. *Ir. Nat. J.* **10**: 198.
—— (1951) Corrigenda. Odonata - Irish distribution. *Ir. Nat. J.* **10**: 172.
—— (1951) Odonata - Irish distribution (including reference to the finding of *I. pumilio* in Co. Carlow and some ecological and miscellaneous notes). *Ir. Nat. J.* **10**: 211-212.
—— (1952) Odonata - Irish distribution. *Ir. Nat. J.* **10**: 323.
—— (1952) The final instar of *Cordulegaster boltonii* (Donovan) = *C. annulatus* (Latreille) (Odonata). *Entomologist's Gazette* **3**: 119-124.
—— (1952) Addenda to the description of the final instar of the nymph *Lestes sponsa* (Hansemann) (Odonata, - Lestidae). *Entomologist's Gazette* **3**: 171-176.
—— (1953) Odonata - Irish distribution - corrigenda. *Ir. Nat. J.* **11**: 56.
—— (1956) Odonata - Irish distribution: *Orthetrum cancellatum* (L.) in Co. Dublin. *Ir. Nat. J.* **12**: 75.
—— (1957) Odonata - Irish distribution. *Ir. Nat. J.* **12**: 203.
—— (1958) Odonata - Irish distribution. *Ir. Nat. J.* **12**: 305.
—— (1958) 'Protrusive' growth of duplex caudal gills in Zygoptera (Odonata). *Entomologist's Gazette* **9**: 102, plate V.
—— (1959) Odonata - Irish distribution. *Ir. Nat. J.* **13**: 103.

MacNeill, N. (1960) A study of the caudal gills of dragonfly larvae of the sub-order Zygoptera. *Proceedings of the Royal Irish Academy* **61**B: 115-140, plates V-IX.

—— (1960) Odonata - Irish distribution *Ir. Nat. J.* **13**: 190.

—— (1960) Odonata - oviposition of *Aeschna grandis* (L.). *Ir. Nat. J.* **13**: 190.

—— (1961) Odonata - Irish distribution: *Sympetrum sanguineum* (Muller). *Ir. Nat. J.* **13**: 277.

—— (1965) Odonata - Irish distribution. *Ir. Nat. J.* **15**: 111-112.

—— (1966) Odonata - Irish distribution. *Ir. Nat. J.* **15**: 209-210.

—— (1967) Respiratory process in the "duplex" caudal gills of agrionid dragonfly larvae. *Proceedings of the Royal Irish Academy* **65**B: 261-268, plate VI.

—— (1967) Pedal combs of the larvae of dragonflies (Odonata). *Proceedings of the Royal Irish Academy* **65**B: 391-406, plate XIV.

—— (1968) Odonata - Irish distribution. *Ir. Nat. J.* **15**: 242.

—— (1968) The larva of *Orthetrum coerulescens* (Fabricius) (Odonata). *Entomologist's Gazette* **19**: 255.

—— (1968) The larva of *Orthetrum coerulescens* (Fabricius) and its habitat (Odonata, Anisoptera, Libellulidae). *Entomologist's Gazette* **19**: 159-163.

—— (1968) Dragonfly taken on trawler. *Ir. Nat. J.* **16**: 24-25.

—— (1968) Odonata - Irish distribution. *Ir. Nat. J.* **16**: 25.

—— (1969) Odonata - Irish distribution. *Ir. Nat. J.* **16**: 207.

MacNeill, N. and Gardner, A. E. (1953) Irish distribution of *Sympetrum sanguineum* Muller (Odonata Libellulidae). *Entomologist's Gazette* **4**: 66.

Mantell, A. and Anderson, R. (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.

Mason, L. J. (1936) Records, Odonata. *Proceedings of the Belfast Naturalists' Field Club* **9**: 357.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork.

McLachlan, R. (1864-1865) Occurrence of *Cordulia arctica* in Ireland. *Entomologist's mon. Mag.* **1**: 76.

—— (1870) Occurrence of *Cordulia metallica*, Van der Lind., a dragonfly new to Britain. *Entomologist's mon. Mag.* **7**: 38. (& sp.)

—— (1884) The British dragonflies annotated. *Entomologist's mon. Mag.* **20**: 251-256.

—— (1901) Odonata collected by Col. Yerbury in the South-West of Ireland in 1901. *Entomologist's mon. Mag.* **37**: 301-302.

Merritt, R. (1985) The incidence of *Hemianax ephippiger* (Burmeister) in Britain and Ireland. *Journal of the British Dragonfly Society* **1**: 105-106.

Merritt, R., Moore, N. W. and Eversham, B. C. (1996) *Atlas of the dragonflies of Britain and Ireland.* ITE research publication **No. 9**. HMSO, London. 149pp.

Mill, P. J. (2010) The Large Red Damselfly *Pyrrhosoma nymphula* (Sulzer) with notes on its close relative the Greek Red Damselfly *Pyrrhosoma elisabethae* Schmidt. *Journal of the British Dragonfly Society* **26**: 34-56.

Miller, P. L. (1995) *Dragonflies. Naturalists' Handbooks* **7**. The Richmond Publishing Co. Ltd, Slough. (*Coenagrion lunulatum* mentioned)

Moffat, C. B. (1909) *Orthetrum caerulescens* in Co. Wexford. *Ir. Nat.* **18**: 24.

—— (1916) *Brachytron pratense* in Co. Wexford. *Ir. Nat.* **25**: 169.

Moore, N. W. (2010) Remembering encounters with dragonflies from the 1930s to the launching of the BDS in 1983. *Journal of the British Dragonfly Society* **26**: 29-31. (mention of Cynthia Longfield)

Moore, W. W. (1980) *Lestes dryas* Kirby - a declining species of dragonfly (Odonata) in need of conservation: notes on its status and habitat in England and Ireland. *Biological Conservation* **17**: 143-148.

Moriarty, C. (1954) Odonata - Irish distribution. *Ir. Nat. J.* **11**: 207.

—— (1955) Odonata - Irish distribution. *Ir. Nat. J.* **11**: 308.

Morton, K. J. (1892) Notes on Trichoptera and Neuroptera from Ireland. *Entomologist's mon. Mag.* **28**: 301. (Neur., Odon., Psoc., Trich.)

—— (1914) Some remarks on the Atlantic forms of *Sympetrum striolatum*, Charp. *Entomologist* **47**: 1-7.

—— (1914) *Hemianax ephipiger*, Burm., in Ireland. *Entomologist's mon. Mag.* **50**: 16.

—— (1925) *Aeschna grandis* L., a doubtful native of Scotland. *Entomologist's mon. Mag.* **61**: 47.

—— (1927) *Aeschna subarctica* Walker in Europe. *Entomologist's mon. Mag.* **63**: 86-89. (*Aeschna juncea*)

National Biodiversity Data Centre (2020) Dragonfly Ireland 2019 to 2024. <https://maps.biodiversityireland.ie/Dataset/299>

Nelson, B. (1985) *Coenagrion lunulatum* (Charpentier) (Odonata) new to Fermanagh (H33). *Ir. Nat. J.* **21**: 503-504.

—— (1986) The Odonata of the north of Ireland. *Journal of the British Dragonfly Society* **2**: 21-23.

—— (1997) Species inventory for Northern Ireland: Odonata. *Environment and Heritage Service Research and Development Series.* **No. 97/5**.

—— (1999) The status and habitat of the Irish damselfly *Coenagrion lunulatum* (Charpentier) (Odonata) in Northern Ireland. *Entomologist's mon. Mag.* **135**: 59-68.

—— (2000) Aquatic insect communities of Northern Irish freshwaters. *Verh. Internat. Verein. Limnol.* **27**: 891-894.

—— (2000) Dragonflies of the Burren and surrounding areas. *Atropos* **11**: 9.

—— (2001) Aquatic insect communities of Northern Irish freshwaters. *Verh. Internat. Verein. Limnol.* **27**: 891-894.

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85.

—— (2011) A review of notable records of Irish odonates post DragonflyIreland (2004-2010), including confirmation of the Golden-Ringed Dragonfly *Cordulegaster boltoni* (Donovan) on the Irish list. *Journal of the British Dragonfly Society* **27**: 105-131.



Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

Nelson, B., Northridge, R. and Rippey, I. (1989) The Odonata (Insecta) of Co. Fermanagh, Ireland. *Bulletin of the Irish Biogeographical Society* **12**: 113-134.

Nelson, B., Ronayne, C. and Thompson, R. (2003) Colonization and changing status of four Odonata species, *Anax imperator*, *Anax parthenope*, *Aeshna mixta* and *Sympetrum fonscolombii*, in Ireland 2000-2002. *Ir. Nat. J.* **27**: 266-272.

—— (2011) Irish Red List No. 6 - Odonata. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin. 27pp.

Nelson, B. and Thompson, R. (2004) *The natural history of Ireland's dragonflies*. MAGNI (Museums and Galleries of Northern Ireland). Publication **No. 013**. The National Museums and Galleries of Northern Ireland, Belfast. 454pp.

Ní Lamhna, E. (1978) *Provisional atlas of dragonflies in Ireland (Part of The European Invertebrate Survey)*. An Foras Forbartha, Dublin. 60pp.

O'Connor, J. P. (1983) Check list of dragonflies and damselflies. p. 498. *In* Feehan, J. (ed.) *Laois. An environmental history*. Ballykilcavan Press, Stradbally.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P. and Murphy, D. (1988) Some records of Irish Odonata (Insecta). *Bulletin of the Irish Biogeographical Society* **11**: 35-40.

O'Connor, J. P. and Nash, R. (1979) Notes on some MSS. relating to dragonflies (Insecta: Odonata) by the late Colonel Niall MacNeill. *Ir. Nat. J.* **19**: 316-317, plates 12-14.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25.

O'Connor, J. P., O'Connor, M. A. and Cotton, D. C. F. (1983) *Lestes dryas* Kirby (Insecta: Odonata) discovered in eastern Ireland. *Ir. Nat. J.* **21**: 34-35.

O'Donnell, E. (2012) Site guide: Cape Clear Island, West Cork, Ireland. *Atropos* **46**: 15-25.

O'Farrell, A. F. (1950) The J.J.F.X. King collection of British Odonata. *Entomologist* **83**: 14-18.

O'Halloran, J., Irwin, S., Kelly, D. L., Kelly, T. C., Mitchell, F. J. G., Coote, L., Oxbrough, A., Wilson, M. W., Martin, R. D., Moore, K., Sweeney, O., Dietzsch, A. C., Walsh, A., Keady, S., French, V., Fox, H., Kopke, K., Butler, F. and Neville, P. (2011) *Management of biodiversity in a range of Irish forest types.* Report prepared for the Department of Agriculture, Fisheries and Food, Dublin. 391pp.

O'Rourke, F. J. (1948) Some dragonfly records from Co. Clare. *Ir. Nat. J.* **9**: 130.

O'Sullivan, M. (2013) From intrigue to obsession. *Atropos* **50**: 67-70. (Lep., Odon.: *Hemianax ephippiger*)

O'Sullivan, M. and Lavery, J. W. (2008) Eight days in the Burren (2007). *Entomologist's Rec. J. Var.* **120**: 107-117.

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Paine, A. (1995) Notes and observations. *Journal of the British Dragonfly Society* **11**: 22-24. (*Sympetrum striolatum*)

Parr, A. (1997) The 1996 Red-veined Darter *Sympetrum fonscolombei* (Selys) influx into Britain. *Atropos* **2**: 44-46. (old Cavan record)

—— (1999) Migrant dragonflies in 1998 including recent decisions and comments by the Odonata records committee. *Atropos* **6**: 69-72. (*Sympetrum fonscolombei*)

—— (2000) An annotated list of the Odonata of Britain and Ireland. *Atropos* **11**: 10-20.

—— (2001) Migrant dragonflies in 2000. *Atropos* **12**: 16-19. (*Aeshna mixta*, *Anax imperator*, *A. parthenope*)

—— (2001) Migrant and dispersive dragonflies in Britain during 2000. *Journal of the British Dragonfly Society* **17**: 49-54. (*Anax parthenope*, *A. imperator*, *Aeshna mixta*, *Sympetrum fonscolombei*)

—— (2002) Migrant dragonflies in 2001. *Atropos* **15**: 31-35. (*Aeshna mixta*, *A. parthenope*)

—— (2002) Migrant and dispersive dragonflies in Britain during 2001. *Journal of the British Dragonfly Society* **18**: 40-45. (*Anax parthenope*)

—— (2003) Migrant dragonflies in 2002. *Atropos* **18**: 18-24. (*Aeshna mixta*, *Sympetrum fonscolombii*)

—— (2003) Migrant and dispersive dragonflies in Britain during 2002. *Journal of the British Dragonfly Society* **19**: 8-14. (*Aeshna mixta*, *Sympetrum striolatum*, *S. fomscolombii*)

—— (2006) Migrant dragonflies in 2005. *Atropos* **27**: 33-38. (*Orthetrum cancellatum*)

—— (2006) Odonata attracted to artificial light. *Atropos* **29**: 38-42. (Co. Antrim)

—— (2006) Migrant and dispersive dragonflies in Britain during 2005. *Journal of the British Dragonfly Society* **22**: 13-18. (*Anax parthenope*, *Orthetrum cancellatum*)

—— (2007) Migrant dragonflies in 2006. *Atropos* **30**: 26-35. (*Aeshna juncea*, *A. mixta*, *Anax imperator*, *A. parthenope*, *Sympetrum fonscolombii*)

—— (2008) Dragonfly news for spring and early summer 2008. *Atropos* **35**: 54-55. (*Sympetrum fonscolombii*)

—— (2008) Migrant dragonflies in 2007. *Atropos* **33**: 17-21. (*Anax parthenope*, *Sympetrum fonscolombii*)

—— (2009) Migrant dragonflies in 2008 including recent decisions and comments by the Odonata Records Committee. *Atropos* **36**: 28-32. (possible Green Darners, *Sympetrum fonscolombii*)

—— (2011) Migrant dragonflies in 2010 including recent decisions and comments by the Odonata Records Committee. *Atropos* **42**: 23-28. (*Sympetrum fonscolombii*, *S. striolatum*)

—— (2011) The year of the Vagrant Emperor *Anax ephippiger* (Burmeister). *Atropos* **44**: 3-10.

Parr, A. (2012) Migrant dragonflies in 2011 including recent decisions and comments by the Odonata Records Committee. *Atropos* **45**: 30-35.

—— (2013) Migrant dragonflies in 2012 including recent decisions and comments by the Odonata Records Committee. *Atropos* **45**: 13-21.

—— (2014) Migrant dragonflies in 2013 including recent decisions and comments by the Odonata Records Committee. *Atropos* **51**: 21-27. (*Hemianax ephippiger*)

—— (2020) A record year for the Vagrant Emperor *Anax ephippiger* (Burmeister, 1839) in Britain during 2019. *Atropos* **66**: 30-39.

Parr, A., De Knijf, G. and Wasscher, M. (2004) Recent appearances of the Lesser Emperor *Anax parthenope* (Selys) in north-western Europe. *Journal of the British Dragonfly Society* **20**: 5-16.

Parr, A. J. (1999) Migrant and dispersive dragonflies in Britain and Ireland during 1998. *Journal of the British Dragonfly Society* **15**: 51-57.

—— (1996) Dragonfly movement and migration in Britain and Ireland. *Journal of the British Dragonfly Society* **12**: 33-50.

—— (2009) Migrant and dispersive dragonflies in Britain during 2008. *Journal of the British Dragonfly Society* **25**: 94-99. (Green Darners in Galway)

Perrin, V. L. (1999) Observation on the distribution, ecology and behaviour of the Hairy Dragonfly *Brachytron pratense* (Muller). *Journal of the British Dragonfly Society* **15**: 39-45.

Pilgrim, E. M. and von Dohlen, C. D. (2007) Molecular and morphological study of species-level questions within the dragonfly genus *Sympetrum* (Odonata: Libellulidae). *Annals of the Entomological Society of America* **100**: 688-702.

Preddy, S. (2001) Identification workshop: the common *Aeshna* hawkers. *Atropos* **13**: 44-48. (colour forms of *A. juncea*)

Regan, E. (2009) *Irish butterflies and insects*. Appletree Press, Belfast.

—— (2011) Dragonflies. *Biodiversity Ireland* **Issue 8**: 10-11.

—— (2012) A new location for the Northern Emerald *Somatochlora arctica* in Ireland. *Atropos* **45**: 88.

—— (2012) Biodiversity tales. Dragonflies. *Biodiversity Ireland* **Issue 10**: 15.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reilly, E. (2008) An ever-closing gap? Modern ecological and palaeoecological contributions towards understanding the Irish post-glacial insect fauna. Pp 63-71. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reynolds, J. D. (1985) Invertebrates of Irish midlands raised bogs: part II. Odonata, aquatic Hemiptera, Trichoptera. *Bulletin of the Irish Biogeographical Society* **8**: 98-102.

—— (1985) Karstic freshwater habitats of the Aran Islands, Co Galway, with preliminary notes on their fauna. *Ir. Nat. J.* **21**: 430-435.

—— (1986) Some invertebrates of Lough Roe, Co. Offaly: a rare and endangered bogland habitat. *Bulletin of the Irish Biogeographical Society* **9**: 41-45.

Reynolds, J. D. (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology.* The Marine Institute, Dublin.

Rippey, I. (1980) Extension of the known range of *Brachytron pratense* (Odonata: Aeshnidae). *Ir. Nat. J.* **20**: 171.

—— (2002) Yellow-winged Darter *Sympetrum flaveolum* L. and Red-veined Darter *Sympetrum fonscolombei* Selys (Odonata: Libellulidae) in Northern Ireland, 1995 and 1998. *Ir. Nat. J.* **26** (2001): 382-383.

—— (2002) Late flight of Common Blue damselfly *Enallagma cyathigerum* Charpentier (Odonata: Coenagriidae), Common Hawker *Aeshna juncea* L. (Odonata: Aeshnidae), Common Darter *Sympetrum striolatum* Charpentier 1840 and Black Darter *Sympetrum danae* Sulzer 1776 dragonflies (Odonata: Libellulidae) in Northern Ireland in 1998 and 1999. *Ir. Nat. J.* **27**: 120-121.

Rippey, I. and Nelson, B. (1988) Odonata in the north of Ireland 1986/87. *Journal of the British Dragonfly Society* **4**: 13-19.

Robbins, J. M. (1938) Wasp versus dragonfly. *Ir. Nat. J.* **7**: 10-11.

Ronayne, C. (1987) Irish Odonata recording scheme-request for records. *Ir. Nat. J.* **22**: 366.

Schmidt, E. (1978) Odonata. Pp 274-279. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Scott, D. A. (2003) Reports from coastal stations - 2002. Dursey Island, Co. Cork. *Atropos* **18**: 66-69.

—— (2005) Reports from coastal stations - 2004. Dursey Island, Co. Cork. *Atropos* **24**: 75-76.

—— (2006) Report from coastal stations - 2005. Dursey Island, Co. Cork. *Atropos* **27**: 75.

—— (2007) Reports from coastal stations - 2006. Dursey Island, Co. Cork. *Atropos* **30**: 85-86.

—— (2011) Reports from coastal stations - 2010. Dursey Island, Co. Cork. *Atropos* **42**: 71.

—— (2012) Dursey Island, Co. Cork. Reports from coastal stations - 2011. *Atropos* **45**: 78-79. (Lep., Odon.)

—— (2014) Dursey Island, Co. Cork. Reports from coastal stations - 2013. *Atropos* **51**: 85. (Lep., Odon.: *Aeshna juncea*)

Sheehy Skeffington, M., Moran, J., O'Connor, Á., Regan, E., Coxon, C. E., Scott, N. E. and Gormally, M. (2006) Turloughs - Ireland's unique wetland. *Biological Conservation* **133**: 265-290.

Smallshire, D. and Swash, A. (2010) *Britain's dragonflies. A field guide to the damselflies and dragonflies of Britain and Ireland.* WildGuides, Maidenhead. 208pp.

—— (2014) *Britain's dragonflies: a field guide to the damselflies and dragonflies of Britain and Ireland.* Third Edition. WildGuides, Princeton University Press, Woodstock.

Smiddy, P. (2004) Some records of rare Odonata species in east Cork and west Waterford: 2002-2003. *Ir. Nat. J.* **27**: 357.

Speight, M. C. D. and Good, J. A. (2005) Farms as biogeographical units 5: the response of Odonata to increased habitat availability on a farm in Co. Cork, Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 262-277.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Speight, M. C. D. and Legrand, J. (1984) *Coenagrion lunulatum* (Odonata): morphology of the female and notes on a second Irish colony. *Ir. Nat. J.* **21**: 237-242.

Stelfox, A. W. (1948) Increase in recent years of the dragonfly *Aeschna grandis* in the Dublin District. *Ir. Nat. J.* **9**: 130.

—— (1950) Halbert's record of the dragonfly *Libellula depressa* L. at Lough Derg, North Tipperary. *Ir. Nat. J.* **10**: 75.

—— (1950) The dragonfly *Sympetrum danae* in Co. Dublin. *Ir. Nat. J.* **10**: 75-76.

Sutton, P. G. (2003) The changing fortunes of British Odonata. *Bulletin of the Amateur Entomologists' Society* **62**: 52-71.

Thompson, R. and Nelson, B. (2004) Ireland's odonates and the formation and success of the DragonflyIreland project. *Atropos* **23**: 3-11.

—— (2014) *Guide to the dragonflies and damselflies of Ireland*. National Museums Northern Ireland, Belfast.

Tyrrell, M. (2011) The Hairy Dragonfly *Brachytron pratense* (Müller). *Journal of the British Dragonfly Society* **27**: 13-27.

Tyrrell, M., Emary, C. and Piper, M. (2009) The Beautiful Demoiselle *Calopteryx virgo* (Linnaeus) in Northamptonshire: eastwards expansion & habitats. *Journal of the British Dragonfly Society* **25**: 100-106.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Wall, D. (2020) Biodiversity tales. Dragonflies. *Biodiversity Ireland* **Issue 20**: 19.

Woodrow, W. (2009) Monaghan Irish Damselfly and Water Beetle Survey 2009. Unpublished report to Monaghan County Council and The Heritage Council.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.



CHAPTER 14. *ORTHOPTERA & *DICTYOPTERA

Anon. (1893) (Orthoptera). *Ir. Nat.* **2**: 225.

Alexander, J. B., Newton, J. and Crowe, G. A. (1991) Distribution of Oriental and German cockroaches, *Blatta orientalis* and *Blattella germanica* (Dictyoptera), in the United Kingdom. *Medical and Veterinary Entomology* **5**: 395-402. (Irish distributions)

Anderson, R. (1977) *Metrioptera roeselii* (Hagenbach) (Orthoptera: Tettigoniidae) new to Ireland. *Ir. Nat. J.* **19**: 17, plate 3.

—— (1985) *Tetrix subulata* (L.) (Orthoptera: Tetrigidae) in Co Fermanagh. *Ir. Nat. J.* **21**: 508.

Anderson, R. (1987) Two new site records for the Speckled Bush Cricket, *Leptophyes punctatissima* (Bosc) (Orthoptera: Tettigoniidae), in Wicklow/Wexford. *Ir. Nat. J.* **22**: 320-321.

—— (1988) New localities for the Common Groundhopper, *Tetrix undulata* (Sowerby) (Orthoptera; Tetrigidae), in Northern Ireland. *Ir. Nat. J.* **22**: 501.

Baldock, D. W. (1977) *Chorthippus albomarginatus* (Degeer) (Orth., Acrididae) in South Kerry. *Entomologist's mon. Mag.* **112**: 144.

Bolger, T. (1997) George Herbert Carpenter. Pp 1-3. *In* Bolger, T. (ed.) *Proceedings of IX International Colloquium on Apterygota, Dublin 1996. Pedobiologia* **41**: 1-224.

Bond, K. G. M. and Blackith, R. E. (1987) A Desert Locust of the solitary phase in Ireland. *Ir. Nat. J.* **22**: 356-358.

Brown, E. (1870) Locusts (*Acridium peregrinium*) in Waterford. *Entomologist* **5**: 26.

Brown, E. S. (1950) Notes on the taxonomy, British distribution and ecology of *Tetrix subulata* (L.) and *T. ceperoi* I. Bolivar (Orthopt., Tetrigidae). *Journal of the Society for British Entomology* **3**: 189-200.

Brown, V. K. (1983) *Grasshoppers. Naturalists' Handbooks* **2.** The Richmond Publishing Co. Ltd, Slough. (summary of 10km records)

Burr, M. (1900) On the British Orthoptera in the Hope Museum, Oxford. *Entomologist's Rec. J. Var.* **12**: 97-99.

—— (1905) Synopsis of the Orthoptera of Western Europe. *Entomologist's Rec. J. Var.* **17**: 125-129.

—— (1936) Scope for our Orthopterists. *Entomologist's Rec. J. Var.* **47**: 44-48.

Burton, J. F. (1965) Notes on British Orthoptera in 1964, with some new vice-county records. *Entomologist's Rec. J. Var.* **77**: 71-78.

—— (1971) Some records of grasshoppers (Acrididae) in S.W. Ireland. *Entomologist's Rec. J. Var.* **83**: 392-393.

Byrne, B. (1951) *Panchlora nivea* (L): a foreign cockroach in Co. Down. *Ir. Nat. J.* **10**: 197.

Carpenter, G. H. (1899) Noteworthy Irish Orthoptera. *Ir. Nat.* **8**: 249.

—— (1902) Orthoptera. P. 216. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

—— (1905) (*Phyllodromia germanica*). *Ir. Nat.* **14**: 262.

—— (1912) Clare Island Survey. 31. Orthoptera. *Proceedings of the Royal Irish Academy* **31**(31): 4pp.

—— (1920) Earwigs, cockroaches and grasshoppers. *Ir. Nat.* **29**: 92.

Cawley, M. (2005) Notes and records on some Irish Orthoptera and Dermaptera. *Bulletin of the Irish Biogeographical Society* **29**: 300-307.

—— (2012) New Irish records for uncommon Orthoptera and Dermaptera. *Bulletin of the Irish Biogeographical Society* **36**: 183-185.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Cooke, D. (1999) A second Irish locality for the Dark Bush Cricket *Pholidoptera griseoaptera* (De Geer) (Orthoptera). *Ir. Nat. J.* **26** (1998): 56-57.

Cornwell, P. B. (1968) The incidence of German and Oriental cockroaches in Ireland. *Ir. Nat. J.* **16**: 97-100.

Cotton, D. C. F. (1980) Distribution records of Orthoptera (Insecta) from Ireland. *Bulletin of the Irish Biogeographical Society* **4**: 13-22.

—— (1980) Chough, *Pyrrhocorax pyrrhocorax* (L.) feeding on grasshoppers. *Ir. Nat. J.* **20**: 171.

—— (1982) A synopsis of the Irish Orthoptera. *Entomologist's Gazette* **33**: 243-254.

—— (1982) The distribution of Odonata and Orthoptera in Ireland. *An Foras Forbartha, Environmental Education Newsletter* **19**: 20-23.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London.

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London.

Cuthbert, H. K. G. (1894) (Insects from Rush). *Ir. Nat.* **3**: 241.

Dale, C. W. (1895) Notes on Orthoptera. *Entomologist* **28**: 333-334.

de Courcy Williams, M. (1985) A record of *Stethophyma grossum* (L.) (Orthoptera) from Woodfield Bog, Co Offaly. *Ir. Nat. J.* **21**: 465.

Donisthorpe, H. St. J. (1903) Orthoptera from South Kerry. *Ir. Nat.* **12**: 138.

Eversham, B. C. (1994) using invertebrates to monitor land use change and site management. *British Journal of Entomology and Natural History* **7** (suppl. 1): 36-45. (*Stethophyma grossum*)

Forsyth, J. (1968) Request for records of grasshoppers, crickets and cockroaches. *Ir. Nat. J.* **16**: 81.

Foss, P. J. and Speight, M. C. D (1989) *Stethophyma grossum* (L.): a further midland record with comment on the status of this grasshopper in Ireland (Orthoptera: Acrididae). *Bulletin of the Irish Biogeographical Society* **12**: 90-93.

Good, J. A. (1986) Invertebrates of Irish midlands raised bogs: part IV. Notes on terrestrial insects. *Bulletin of the Irish Biogeographical Society* **9**: 2-9.

Good, J. A. and Cullinane, D. (1990) The Great Green Bush-cricket, *Tettigonia viridissima* L. (Orthoptera: Tettigoniidae) imported in a tent. *Ir. Nat. J.* **23**: 220.

Goodhue, R. D., Greer Walker, M. and Blackith, R. E. (1964) The distribution of Irish orthopteroids. *Entomologist's mon. Mag.* **100**: 165-167.

Haes, E. C. M. (1978) A second string. Orthoptera and Dictyoptera. *Bulletin of the Amateur Entomologists' Society* **37**: 30-44, 85-104.

—— (ed.) (1979) *Provisional atlas of the insects of the British Isles. Part 6. Orthoptera Grasshoppers and Crickets.* Second Edition. Biological Records Centre, Huntingdon.

Haes, E. C. M. and Harding, P. T. (1997) *Atlas of grasshoppers, crickets and allied insects in Britain and Ireland.* The Stationery Office, London. 61pp. (ITE Research Publication **No. 11**).

Halbert, J. N. (1908) Orthoptera. Pp 172-173. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

Harding, P. T. (1981) A review of the Irish records of *Leptophyes punctatissima* (Bosc) (Orthoptera: Tettigoniidae). *Ir. Nat. J.* **20**: 256-257.

—— (1981) A handlist of the papers of Denis R. Pack Beresford at the library of the Royal Irish Academy. *Ir. Nat. J.* **20**: 235-240.

Hincks, W. D. (1956) Dermaptera and Orthoptera. *Handbooks for the Identification of British Insects* **1**(5): 1-24.

Johnson, W. F. (1897) Insect folk-lore. *Ir. Nat.* **6**: 86.

—— (1905) *Phyllodromia germanica* at Poyntzpass. *Ir. Nat.* **14**: 262.

Kevan, D. K. McE. (1952) A summary of the recorded distribution of British orthopteroids. *Transactions of the Society of British Entomology* **11**: 165-180.

—— (1953) Notes on the distribution of British orthopteroids. *Journal of the Society for British Entomology* **4**: 119-122.

—— (1954) Further notes on the distribution of British orthopteroids. *Journal of the Society for British Entomology* **5**: 65-71.

—— (1956) The known distribution of British orthopteroids, fourth supplement. *Journal of the Society for British Entomology* **5**: 187-192.

—— (1961) A revised summary of the known distribution of British orthopteroids. *Transactions of the Society of British Entomology* **14**: 187-205.

Lucas, W. J. (1899) *Mecostethus grossus*, Linn. = *flavipes* Gmel., Don., Steph. = *germanicus*, Stoll. = *rubripes*, De Geer. *Entomologist* **32**: 169-171.

—— (1913) British short-horned grasshoppers. *Proceedings of the South London Entomological and Natural History Society* **1913-1914**: 26-33, plates 3-4.

—— (1914) British long-horned grasshoppers. *Proceedings of the South London Entomological and Natural History Society* **1914-1915**: 49-57.

—— (1915) British cockroaches. *Proceedings of the South London Entomological and Natural History Society* **1915-1916**: 29-40, plate iii.

—— (1915) British crickets. *Proceedings of the South London Entomological and Natural History Society* **1915-1916**: 50-54, plate vi.

—— (1916) British Orthoptera in 1915. *Entomologist* **49**: 58-61.

—— (1920) *A Monograph of the British Orthoptera*. Printed for the Ray Society by Adlard & Son and West Newman, London & Dorking.

—— (1930) Notes on British Orthoptera in 1929. *Entomologist* **63**: 145-147.

Malumphy, C. (2011) Findings of mole crickets *Gryllotalpa* spp. (Orthoptera: Gryllotalpidae) in England in association with imports. *British Journal of Entomology and Natural History* **24**: 138-140. (Northern Ireland)

Mantell, A. and Anderson, R. (2020) Important Invertebrate Area Surveys: Ballyogan and Slieve Carran, Co. Clare. *Irish Wildlife Manuals* **No. 127**. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland. (Orth.)

Marshall, J. A. and Haes, E. C. M. (1988) *Grasshoppers and allied insects of Great Britain and Ireland.* Harley Books, Colchester. 252pp.

McCormack, S. and Regan, E. (2014) *Insects of Ireland: an illustrated introduction to Ireland's common insect groups.* The Collins Press, Cork.

McLachlan, R. (1887) *Periplaneta australasiae*, F., at Belfast. *Entomologist's mon. Mag.* **23**: 235.

Morris, M. G. (1974) (Communications: *Stethophyma grossum* (L.)). *Proceedings and Transactions of the British Entomological and Natural History Society* **7**: 60-61.

Mosely, M. E. (1930) Irish Trichoptera, Neuroptera, etc. *Entomologist* **63**: 30-34.

Nash, R. (1972) The cricket, *Gryllus bimaculatus* DeGeer, in Ireland. *Ir. Nat. J.* **17**: 246.

Nash, R., Boston, M. R., Black, T. B. and O'Connor, J. P. (1985) Insects imported into Ireland 7. The Brown-banded Cockroach *Supella supellectilium* (Serville). *Ir. Nat. J.* **21**: 495-496.

Nash, R. and O'Connor, J. P. (1990) Insects imported into Ireland 9. Records of Orthoptera, Dictyoptera, Homoptera and Hymenoptera including Roger's Ant, *Hypoponera punctatissima* (Roger). *Ir. Nat. J.* **23**: 255-257.

National Biodiversity Data Centre (2020) Grasshoppers, Crickets and Allied Insects (Orthoptera) of Ireland. <https://maps.biodiversityireland.ie/Dataset/204>

Neale, F. (1897) (*Meconema varia*). *Ir. Nat.* **6**: 53.

—— (1898) (*Tettix subulatus*). *Ir. Nat.* **7**: 58.

Nelson, B. (1985) *Myrmeleotettix maculatus* (Thunberg) (Orthoptera: Acrididae) in the Mournes, County Down. *Ir. Nat. J.* **21**: 545-546.

—— (2005) Surveys of the insects, spiders and other invertebrates of fens in Counties Armagh, Down and Tyrone, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **29**: 3-85. (Orth.)

—— (2017) Identifying Irish grasshoppers, groundhoppers and bush-crickets. *Biodiversity Ireland* **Issue 15**: 14-16.

O'Brien, K. D. (2015) A second Irish record of Southern Oak Bush Cricket (*Meconema meridionale* (Costa)) (Orthoptera: Tettigoniidae). *Ir. Nat. J.* **34**: 133.

O'Connor, J. P. (1981) A 1937 record of *Tachycines asynamorus* Adelung (Orthoptera) from Ireland. *Entomologist's mon. Mag.* **116**: 245.

—— (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44. (Dicty.)

—— (1993) A recent Irish record of the House-cricket (*Acheta domesticus* (L.)) (Orthoptera: Gryllidae). *Ir. Nat. J.* **24**: 337.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2002) Records of the Speckled Bush-cricket *Leptophyes punctatissima* (Bosc) (Orthoptera) from Cos Carlow and Kilkenny. *Ir. Nat. J.* **26** (2001): 430.

—— (2007) *Meconema thalassinum* (De Geer) (Orthoptera) new to Co Wexford. *Ir. Nat. J.* **28** (2006): 341.

—— (2009) The Mole-cricket *Gryllotalpa gryllotalpa* (Linnaeus, 1758) (Orthoptera: Gryllotalpidae) in Ireland. *Entomologist's Gazette* **60**: 175-177.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

—— (2007) Contributions towards a checklist of insects feeding on Irish trees. Part 1: Hymenoptera, Lepidoptera and Orthoptera. *Bulletin of the Irish Biogeographical Society* **31**: 197-267.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165. (Dicty.)

O'Connor, J. P. and Nash, R. (1979) Record of six insect species (Coleoptera: Orthoptera) recently imported into Ireland. *Ir. Nat. J.* **19**: 433-434.

—— (1982) Further records of insects (Dictyoptera, Lepidoptera, Coleoptera, Diptera) imported into Ireland. *Ir. Nat. J.* **20**: 393-395. (includes the Praying Mantis (*Mantis religiosa*))

—— (1983) Insects imported into Ireland 5. Records of Orthoptera, Hemiptera, Hymenoptera and Coleoptera. *Ir. Nat. J.* **21**: 114-117.

—— (1984) Insects imported into Ireland 6. Records of Orthoptera, Dermaptera, Lepidoptera and Coleoptera. *Ir. Nat. J.* **21**: 351-353.

O'Connor, J. P., Nash, R. and Anderson, R. (1983) Insects imported into Ireland 4. Records of Dictyoptera, Hemiptera, and Coleoptera (including *Pycnomerus fuliginosus* Erichson). *Ir. Nat. J.* **21**: 81-83.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and O'Connor, M. A. (1985) *Pholidoptera griseoaptera* (DeGeer) (Orthoptera: Tettigoniidae) new to Ireland. *Entomologist's Gazette* **36**: 229-232.

—— (1988) *Meconema thalassinum* (DeGeer) (Orthoptera: Meconematidae) new to eastern Ireland. *Ir. Nat. J.* **22**: 455.

O'Donovan, J. E. (1953) *Mecostethus grossus* in West Cork. *Ir. Nat. J.* **11**: 25.

O'Sullivan, J. (2014) A first Irish record of *Meconema meridionale* (Costa) (Orthoptera: Tettigoniidae). *Ir. Nat. J.* **33**: 138.

O'Sullivan, M. and Lavery, J. W. (2009) Oak Bush-cricket *Meconema thalassinum* (Degeer) (Orth.: Tettigoniidae) at Killarney, Co. Kerry, Ireland. *Entomologist's Rec. J. Var.* **121**: 107-108.

Pinchen, B. (2005) Recent records of Mole Cricket *Gryllotalpa gryllotalpa* Linn. in Britain. *Atropos* **24**: 36-40.

Ragge, D. R. (1963) First record of the grasshopper *Stenobothrus stigmaticus* (Rambur) (Acrididae) in the British Isles, with other new distribution records and notes on the origin of the British Orthoptera. *Entomologist* **96**: 211-217.

—— (1965) *Grasshoppers, crickets and cockroaches of the British Isles*. Frederick Warne, London & New York.

—— (1973) The British Orthoptera: a supplement. *Entomologist's Gazette* **24**: 227-245.

Regan, E. (2009) Irish butterflies and insects. Appletree Press, Belfast.



Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. Irish Wildlife Manuals **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reilly, E. (2008) An ever-closing gap? Modern ecological and palaeoecological contributions towards understanding the Irish post-glacial insect fauna. Pp 63-71. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology.* The Marine Institute, Dublin.

Ridley, H. L. (1884) *Pachytylus cinerascens*, F., in Kerry. *Entomologist's mon. Mag.* **20**: 215.

Shaw, E. (1889) Synopsis of the British Orthoptera. *Entomologist's mon. Mag.* **25**: 409-421, 450-455.

Skelton, M. J. (1973) Orthoptera distribution maps scheme progress report April 1973. *Entomologist's Gazette* **24**: 223-226.

Speight, M. C. D. (1976) Irish Orthoptera: some distribution records, including a first record of *Tachycines asynamorus* Adelung (Raphidophoridae). *Ir. Nat. J.* **18**: 272-273.

—— (1999) Bush crickets and the Burren, with first records *of Pholidoptera griseoaptera* (De Geer) (Orth.: Tettigoniidae). *Entomologist's Rec. J. Var.* **111**: 139-141.

—— (2004) Insect records from the Connemara (Co. Galway) and Mayo (Co. Mayo) National Parks, western Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 31-60. (Orth.)

Stelfox, A. W. (1935) The Irish Orthoptera. *Ir. Nat. J.* **5**: 215-216. (comment on Burr, 1935)

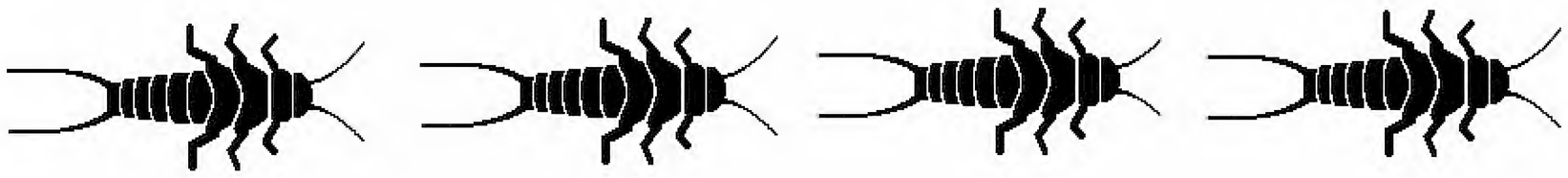
—— (1947) On the distribution in Ireland of our largest grasshopper - *Mecostethus grossus* L. *Ir. Nat. J.* **9**: 37-38.

Sutton, P. (2012) Biodiversity tales. Grasshoppers & crickets. *Biodiversity Ireland* **Issue 9**: 12.

Sutton, P. G., Beckmann, B. C. and Nelson, B. (2017) The current status of Orthopteroid insects in Britain and Ireland. *Atropos* **59**: 6-35.

Telfer, M. G. and Hassall, M. (1999) Ecotypic differentiation in the grasshopper *Chorthippus brunneus*: life history varies in relation to climate. *Oecologia* **121**: 245-254.

Walters, M. P. (1968) Common Cockroach *Blatta orientalis* L. *Ir. Nat. J.* **16**: 80.



CHAPTER 15. *PLECOPTERA

Anon. (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54.

Anderson, R. (2007) Insect and invertebrate review 2005-2006. *Ir. Nat. J.* **28** (2006): 335-337.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

Baars, J. R. and Kelly-Quinn, M. (2006) The Plecoptera of Irish freshwaters - species distribution, status and association with environmental parameters. Unpublished report to the Heritage Council, Reference (14525)

Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248.

Bracken, J., Norton, M. and Phillips, H. (1991) A progress report on the rehabilitation of the Kilmastulla River, Co. Tipperary (1986-1988). Pp 115-134. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Brown, V. M., Cragg, J. B. and Crisp, D. T. (1964) The Plecoptera of the Moor House National Nature Reserve, Westmorland. *Transactions of the Society of British Entomology* **16**: 123-134.

—— (1974) Distribution data on the Ephemeroptera and Plecoptera in Ireland. *Entomologist's Gazette* **25**: 141-146.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Clabby, K. J. and Bracken, J. J. (1976) The Glencullen River Survey. *Scientific Proceedings of the Royal Dublin Society Ser. B.* **3**: 355-370.

Costello, M. J. (1988) Preliminary observations on wing-length polymorphism in stoneflies (Plecoptera: Insecta) in Ireland. *Ir. Nat. J.* **22**: 474-478.

—— (1988) A review of the distribution of stoneflies (Insecta, Plecoptera) in Ireland. *Proceedings of the Royal Irish Academy* **88**B: 1-22.

Costello, M. J., McCarthy, T. K. and O'Farrell, M. (1984) The stoneflies (Plecoptera) of the Corrib catchment area, Ireland. Huitième Symposium International sur les Plécoptères (Toulouse 17-20 août 1983) *International Journal of Limnology* **20**: 25-34. [*Annls Limnol.*]

de Eyto, E., Doyle, B., King, N., Kilbane, T., Finlay, R., Sibigtroth, L., Graham, C., Poole, R., Ryder, E., Dillane, M. and Jennings, E. (2020) Characterisation of salmonid food webs in the rivers and lakes of an Irish peatland ecosystem. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 1-17.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53)

Fahy, E. (1975) Salmonid stocks of the Cloonee catchment in Co. Kerry. *Fishery Leaflet of the Department of Agriculture Fisheries Division Dublin* **No. 95**: 1-8.

Feeley, H. (2020) Stoneflies (Plecoptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/225>

Feeley, H., Baars, J.-R. and Kelly-Quinn, M. (2007) Life history and ecology of *Perla bipunctata* (Plecoptera: Perlidae) in Ireland. *17th Annual Environmental Conference*. Institute of Technology, Carlow.

—— (2009) The life history of *Perla bipunctata* Pictet, 1833 (Plecoptera; Perlidae) in the upper River Liffey. *Aquatic Insects* **31**: 261-270.

Feeley, H. B. and Baars, J.-R. (2020) Some records of adult stoneflies (Plecoptera), including observations on wing length, from Ireland, 2018-2020. *Bulletin of the Irish Biogeographical Society* **44**: 236-241.

Feeley, H. B., Baars, J. R. and Kelly-Quinn, M. (2016) *The Stonefly (Plecoptera) of Ireland: Distribution, Life Histories & Ecology.* National Biodiversity Data Centre, Waterford, Ireland.

Feeley, H. B., Baars, J-R., Kelly-Quinn, M. and Nelson, B. (2020) *Ireland Red List No. 13: Stoneflies (Plecoptera).* National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Dublin, Ireland.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Feeley, H. B., Davis, S., Bruen, M., Blacklocke, S. and Kelly-Quinn, M. (2012) The impact of a catastrophic storm event on benthic macroinvertebrate communities in upland headwater streams and potential implications for ecological diversity and assessment of ecological status. *Journal of Limnology* **71**: 299-308.

Feeley, H. B. and Kelly-Quinn, M. (2012) An evaluation of local and regional diversity of benthic macroinvertebrate communities in two small regions of Ireland and their potential as localised refugia for certain taxonomic groups. *Biology and Environment: Proceedings of the Royal Irish Academy* **112**B: 43-54.

—— (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218.

—— (2015) The nymphal diet of the stonefly *Protonemura meyeri* (Pictet) (Plecoptera: Nemouridae) in four episodically acidic headwater streams in Ireland. *Ir. Nat. J.* **34**: 104-109.

—— (2018) Sex ratio and adult emergence of the stonefly *Perla bipunctata* (Plecoptera: Perlidae) in the upper River Liffey, with notes from four additional rivers. *Ir. Nat. J.* **36**: 14-17.

Feeley, H. B., Little, R. and Baars, J.-R. (2019) Some additional notes on the life histories of *Nemurella pictetii* Klapálek and *Brachyptera risi* (Morton) (Plecoptera) in Ireland. *Ir. Nat. J.* **36**: 146-147.

Forsyth, M. (1961) Stonefly larvae from the Shimna River, Newcastle, Co. Down. *Ir. Nat. J.* **13**: 277.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S., O'Halloran, J., Hernan, R., Roche, N., Clenaghan, C., Evans, J., Kiely, G. K., Morris, P., Allott, N., Brennan, M., Reynolds, J., Cooke, D., Kelly-Quinn, M., Bracken, J., Coyle, S. and Farrell, E. P. (1993) An integrated study of forested catchments in Ireland. *Irish Forestry* **50**: 70-83.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 115-126.

Halbert, J. N. (1908) (*Capnia atra*). *Ir. Nat.* **17**: 124.

—— (1908) Neuroptera. Pp 170-171. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1909) (*Perla cephalotes*). *Ir. Nat.* **18**: 119.

—— (1912) Clare Island Survey. 27. Neuroptera. *Proceedings of the Royal Irish Academy* **31**(27): 4pp.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202.

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215.

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

Hynes, H. B. N. (1941) The taxonomy and ecology of the nymphs of British Plecoptera with notes on the adults and eggs. *Transactions of the Royal Entomological Society of London* **91**: 459-557.

—— (1952) The Plecoptera of the Isle of Man. *Proceedings of the Royal Entomological Society of London A* **27**: 71-76.

—— (1955) A note on the stoneflies of Iceland. *Proceedings of the Royal Entomological Society of London A* **30**: 164-166.

—— (1958) A key to the adults and nymphs of the British stoneflies (Plecoptera) with notes on their ecology and distribution. *Scientific Publications of the Freshwater Biological Association* **No. 17**: 1-87.

—— (1963) The gill-less nemourid nymphs of Britain (Plecoptera). *Proceedings of the Royal Entomological Society of London A* **38**: 70-76.

—— (1967) A key to the adults and nymphs of the British stoneflies (Plecoptera) with notes on their ecology and distribution. *Scientific Publications of the Freshwater Biological Association* **No. 17**: 1-91.

Hynes, H. B. N. (1977) A key to the adults and nymphs of the British stoneflies (Plecoptera) with notes on their ecology and distribution. *Scientific Publications of the Freshwater Biological Association* **No. 17**: 1-92.

Illies, J. (1978) Plecoptera. Pp 264-273. *In* Illies, J. (ed.) *Limnofauna Europaea*.

InvertebrateIreland Online (2006) Irish Plecoptera (Stoneflies). National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=5>

Irvine, K., Free, G., de Eyto, E., White, J., Allott, N. and Mills, P. (2001) The EC water framework directive and monitoring lakes in the Republic of Ireland. *Freshwater Forum* **16**: 48-64. (*Leuctra*)

Johnson, M., O'Gorman, K., Gallagher, M., Clenaghan, C., Giller, P. S. and O'Halloran, J. (2001) The identification and amelioration of the impacts of clearfelling operations on lotic macroinvertebrates and salmonids in Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1565-1570.

Johnson, M. J., Giller, P. S., O'Halloran, J., O'Gorman, K. and Gallagher, M. B. (2005) A novel approach to assess the impact of land use activity on chemical and biological parameters in river catchments. *Freshwater Biology* **50**: 1273-1289.

Johnson, W. F. (1893) Additions to the Irish List of Neuroptera. *Entomologist's mon. Mag.* **29**: 287.

Kelly-Quinn, M. (1991) The diel feeding pattern of brown trout (*Salmo trutta* L.) in acid streams during the summer and autumn months. Pp 47-57. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Kelly-Quinn, M., Bradley, C., Harrington, T. J., Rippey, B. and White, B. (2019) RIVTYPE, a database of hydrochemistry, macroinvertebrate, macrophyte and phytobenthos communities from river sites in Ireland generated for typological classification. *Biology and Environment: Proceedings of the Royal Irish Academy* **119**B: 29-36.

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2002) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 119-124.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kibichii, S., Feeley, H. B., Baars, J.-R. and Kelly-Quinn, M. (2015) The influence of water quality on hyporheic invertebrate communities in agricultural catchments. *Marine and Freshwater Research* **66**: 805-814. <http://dx.doi.org/10.1071/MF14214>

Kimmins, D. E. (1940) A synopsis of the British Nemouridae (Plecoptera). *Transactions of the Society of British Entomology* **7**: 65-83.

—— (1950) Plecoptera (stone-flies). *Handbooks for the Identification of British Insects* **1**(6): 1-18.

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235.

Lavery, T. A. (1991) A note on *Empis* (*Platyptera*) *borealis* Linn. (Diptera: Empididae). *Bulletin of the Amateur Entomologists' Society* **50**: 260-262. (also Plec. mentioned)

Lucey, J. (1991) Invertebrates as pollution indicators in Irish rivers. Pp 135-150. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Lucy, F., Costello, M. J. and Giller, P. S. (1990) Diet of *Dinocras cephalotes* and *Perla bipunctata* (Plecoptera, Perlidae) in a south-west Irish stream. *Aquatic Insects* **12**: 199-207.

McCarthy, T. K., Barbiero, R. P., King, J., Doherty, D., O'Connor, B. and Cullen, P. (2000) Water quality monitoring in some larger western Irish lakes. *Verh. Internat. Verein. Limnol.* **27**: 1816-1821. (*Capnia atra*)

Mc Conigley, C., Lally, H. and Kelly-Quinn, M. (2020) Investigating the feeding preferences of adult *Leuctra inermis*, for the pollen of typical riparian tree species. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 213-217. (electronic version pagination is 203-207)

Morton, K. J. (1911) On *Taeniopteryx putata*, Newman (Plecoptera), with notes on other species of the Genus. *Entomologist* **44**: 81-87.

—— (1929) Notes on the Genus *Leuctra* with descriptions of two new species, and on the Genus *Capnia* including a species new to the British fauna. *Entomologist's mon. Mag.* **65**: 128-134.

Mosely, M. E. (1930) Irish Trichoptera, Neuroptera, etc. *Entomologist* **63**: 30-34.

Neale, M., Nelson, B. and Rippey, B. (2003) Notable records of aquatic insects (Plecoptera, Hemiptera and Coleoptera) from Northern Ireland. *Ir. Nat. J.* **27**: 295-300.

Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D. and Wyse Jackson, M. (2019) Checklists of protected and threatened species in Ireland. *Irish Wildlife Manuals* **No. 116**. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

O'Connor, J. P. (1978) The stonefly *Capnia atra* Morton (Plecoptera: Capniidae) confirmed as an Irish species. *Entomologist's Gazette* **29**: 156-158.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history*. The Lilliput Press, Dublin.

—— (2005) *Leuctra nigra* (Olivier) (Plecoptera, Leuctridae) discovered in south-west Ireland. *Entomologist's mon. Mag.* **141**: 130.

O'Connor, J. P. and Bracken, J. J. (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co. Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978): 3-24.

O'Connor, J. P. and Costello, M. J. (1997) *Leuctra nigra* (Olivier) (Plecoptera: Leuctridae), a stonefly new to Ireland. *Entomologist's Gazette* **48**: 51-52.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25.

—— (1978) Further notes on the aquatic invertebrates of Hare Island and its environs, Lough Ree, Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **2**: 37-39.

O'Connor, J. P. and O'Connor, M. A. (2013) Some records of adult stoneflies (Plecoptera) from Ireland. *Bulletin of the Irish Biogeographical Society* **37**: 83-103.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21.

O'Driscoll, C., de Eyto, E., Rodgers, M., O'Connor, M., Kelly, M. and Xiao, L. (2014) Spatial and seasonal variation of peatland-fed riverine macroinvertebrate and benthic diatom assemblages and implications for assessment: a case study from Ireland. *Hydrobiologia* **728**: 67-87. (Eph., Plec.)

Oliver, G. A. and Healy, B. (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reynolds, J. D. (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684.

—— (2008) Man-handled? How and when did freshwater invertebrates cross the sea to Ireland? A review with particular reference to crustaceans. Pp 83-95. *In* Davenport, J. L., Sleeman, D. P. and Woodman, P. C. (eds) *Postglacial colonization conference: mind the gap. Irish Naturalists' Journal Special Supplement*.

Reynolds, J. D. and Byrne, R. A. (2017) Stonefly nymphs in turloughs. *Ir. Nat. J.* **35**: 137-138.

Reynolds, J. D., Cooke, D., Simon, N., Allott, N. and Brennan, M. (1994) Macroinvertebrate communities of poorly buffered afforested and non-afforested streams in western Ireland. *Verh. Internat. Verein. Limnol.* **25**: 1496-1501.

Reynolds, J. D. and Hunter, C. (1985) Evaluation of the use of artificial substrates in sampling the invertebrate fauna of sewage fungus slimes in Irish rivers. *Verh. Internat. Verein. Limnol.* **22**: 2239-2243.

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream - and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730.

Riipinen, M. P., Fleituch, T., Hladyz, S., Woodward, G., Giller, P. and Dobson, M. (2010) Invertebrate community structure and ecosystem functioning in European conifer plantation streams. *Freshwater Biology* **55**: 346-359.

Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60.

Sivec, I. and Stark, B. P. (2002) The species of *Perla* (Plecoptera: Perlidae): evidence from egg morphology. *Scopolia* **49**: 1-33. (*P. bipunctata*)

Smith, C., Good, M., Murphy, J. F., Giller, P. S. and O'Halloran, J. (2000) Life history patterns and spatial and temporal overlap in an assemblage of lotic Plecoptera in the Araglin Catchment Study Area, Ireland. *Archiv für Hydrobiologie* **150**: 117-132.

Speight, M. C. D., Good, J. A., Marnell, F., Moorkens, E. and Nelson, B. (2000) Invertebrate (Arachnida, Insecta, Mollusca) records from some County Mayo localities, Ireland. *Bulletin of the Irish Biogeographical Society* **24**: 43-68.

Strange, C. D. (1985) The effect of temperature on the egg development of *Protonemura meyeri* Pictet (Plecoptera: Nemouridae). *Proceedings of the Royal Irish Academy* **85**B: 101-106.

Tierney, D., Kelly-Quinn, M. and Bracken, J. J. (1998) The faunal communities of upland streams in the eastern region of Ireland with reference to afforestation impacts. *Hydrobiologia* **389**: 115-130.

Toner, P. F. and O'Connell, C. (1971) Water quality investigations in the River Blackwater and River Martin, Co. Cork 1966-1969. *Irish Fisheries Investigations Series A* **No. 8**.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Wise, E. J. and O'Connor, J. P. (1997) Observations on the distribution and relative abundance of the Ephemeroptera and Plecoptera in the Killarney Valley, Co. Kerry Ireland. Pp 175-179. *In* Landolt, P. and Sartori, M. (eds) *Ephemeroptera and Plecoptera: Biology-Ecology-Systematics*. MTL, Fribourg.

Woodward, G., Bonada, N., Feeley, H. B. and Giller, P. S. (2015) Resilience of a stream community to extreme climatic events and long-term recovery from a catastrophic flood. *Freshwater Biology* **60**: 2497-2510.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.

Zwick, P. (2011) Polymorphism and taxonomic problems in the *Perlodes microcephalus* group (Plecoptera: Perlodidae); *Perlodes mortoni* removed from synonymy. *Illiesia* **7**: 291-296. (Irish *Perlodes* is indeed *P. microcephalus*)



CHAPTER 16. *PSOCOPTERA

Alexander, K. N. A. (2007) *Atlantopsocus adustus* (Hagen) (Psoc.: Psocidae) new to Britain from east Cornwall. *Entomologist's Rec. J. Var.* **119**: 76. (*A. personatus* mentioned)

—— (2013) Confirmation of the barkfly *Atlantopsocus personatus* (Hagen) (Insecta: Psocoptera) as an Irish species. *Ir. Nat. J.* **32**: 71.

—— (2019) *Chilenocaecilius ornatipennis* (Blanchard) (Psocodea: 'Psocoptera': Paracaeciliidae) continues to expand across western Britain and Ireland. *Entomologist's mon. Mag.* **155**: 212-213.

Alexander, K. N. A. and Saville, R. E. (2009) Seven arboreal barkflies newly recognized in Ireland and records of other species from six historic demesnes across Northern Ireland (Insecta: Psocoptera). *Ir. Nat. J.* **29** (2008): 102-106.

Baz, A. (1988) The genus *Atlantopsocus* Badonnel (Psocoptera: Psocidae) in the Iberian peninsula. *Entomological Scandinavica* **18**: 437-442.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

Fahy, E. D. (1968) A new subspecies of *Atlantopsocus personatus* (Psocoptera) from Southern Ireland. *Entomologist's mon. Mag.* **103** (1967): 205-207.

—— (1969) Some features of the nymphs of common species of British Trogiidae (Psocoptera). *Entomologist's mon. Mag.* **105**: 55-59.

—— (1970) The distribution of the Irish Psocoptera. *Proceedings of the Royal Irish Academy* **69**B: 139-164.

—— (1973) The life history and immature stages of an exotic bark-frequenting psocid from Southern Ireland (Psocoptera). *Entomologist's Gazette* **24**: 319-323.

Halbert, J. N. (1912) Clare Island Survey. 27. Neuroptera. *Proceedings of the Royal Irish Academy* **31**(27): 4pp.

Irwin, A. G. (1992) *Metatrichoniscoides* sp (Isopoda: Trichoniscidae), *Epipsocus lucifugus* (Rambur) (Psocoptera: Epipscocidae) and *Leptoiulus belgicus* (Latzel) (Diplopoda: Juliidae), new to Ireland and confirmation of *Rhynchodemus sylvaticus* (Leidy) (Tricladida: Rhynchodemidae) as an Irish species. *Ir. Nat. J.* **24**: 106-108.

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.

Leinhard, C. and Smithers, C. (2002) Psocoptera - world catalogue and bibliography. *Instrumenta Biodiversitatis* **No. V**. Muséum d'histiore naturelle, Genève.

Lienhard, C., Telfer, M. G. and Anderson, R. (2017) *Chilenocaecilius ornatipennis* (Blanchard, 1851) (Psocodea: 'Psocoptera', Paracaeciliidae) in Ireland, first Palaearctic record of this South American genus and species. *Entomologist's mon. Mag.* **153**: 31-43.

McLachlan, R. (1899) *Psocus major* (Kolbe), Loens, in Co. Wexford. *Entomologist's mon. Mag.* **35**: 234.

—— (1903) A few "Neuroptera" from South-West Ireland. *Entomologist's mon. Mag.* **39**: 14.

Morton, K. J. (1892) Notes on Trichoptera and Neuroptera from Ireland. *Entomologist's mon. Mag.* **28**: 301. (Neur., Odon., Psoc., Trich.)

New, T. R. (1971) An introduction to the natural history of the British Psocoptera. *Entomologist* **104**: 59-97.

—— (1974) Psocoptera. *Handbooks for the Identification of British Insects* **1**(7): 1-102.

—— (2005) Psocids Psocoptera (Booklice and barklice). *Handbooks for the Identification of British Insects* **1**(7): 146pp.

Noordijk, J. (2015) De exotische stofluis *Badonnelia titei* in Nederland (Psocodea: Sphaeropsocidae). *Nederlandse Faunistische Mededelingen* **45**: 51-56.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1987) *Badonnelia titei* Pearman (Psocoptera, Sphaeropsocidae); a splendid addition to the library of the National Museum of Ireland. *Entomologist's mon. Mag.* **123**: 125.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history*. The Lilliput Press, Dublin.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Smithers, C. N. (1982) An Irish record of the booklouse *Badonnelia titei* Pearman (Psocoptera, Sphaeropsocidae). *Entomologist's mon. Mag.* **118**: 226.

—— (1999) *Dorypteryx domestica* (Smithers) (Psocoptera, Psyllipsocidae) new to Ireland. *Entomologist's mon. Mag.* **135**: 242.

O'Connor, J. P. and Vaucheret, S. (2006) *Dorypteryx longipennis* Smithers (Psocopt., Psyllipsocidae) new to Ireland and a further Irish record of *Badonnelia titei* Pearman (Psocopt., Sphaeropsocidae). *Entomologist's mon. Mag.* **142**: 62.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Saville, B. (2001) New British barklice (Psocoptera) since 1974. *Entomologist's mon. Mag.* **137**: 79-83. (mentions *Ectopsocus petersi* and *E. axillaris*)

—— (2020) National Barkfly Recording Scheme (Britain and Ireland). <https://www.brc.ac.uk/schemes/barkfly/homepage.htm>

Smithers, C. N. (1978) A new species and new records of Psocoptera (Insecta) from Ireland. *Ir. Nat. J.* **19**: 141-148.

—— (1999) A second English locality for *Ectopsocus petersi* Smithers (Psocoptera). *Entomologist's mon. Mag.* **135**: 175.

Smithers, C. N. and O'Connor, J. P. (1991) New records of Psocoptera (Insecta) (Booklice, Barklice) from Ireland, including a species previously known from New Zealand. *Ir. Nat. J.* **23**: 477-486.

Smithers, C. N., O'Connor, J. P. and Peters, J. V. (2000) A list of Irish Psocoptera (Insecta) (Booklice, barklice, psocids). *Ir. Nat. J.* **26** (1999): 228-235.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - a modern coastal natural history*. The Royal Dublin Society, Dublin.

van Zuijlen, J. W. A. and Belgers, J. D. M. (2011) De stofluis *Philotarsus parviceps* nieuw voor Nederland (Psocoptera: Philotarsidae). *Entomologische Berichten* **71**: 46-49. (*P. picicornis*)

Welch, R. C. (2012) Two unusual Psocoptera - *Pteroxanium kelloggi* (Ribaga) and *Badonnelia titei* Pearman indoors in Northamptonshire. *Entomologist's Rec. J. Var.* **124**: 178-179.

Woodward, S. F. (2015) Barkfly *Blaste quadrimaculata* (Latreille) (Pso.: Psocidae) on Leicestershire churches. *Entomologist's Rec. J. Var.* **127**: 17. (Ireland mentioned)



CHAPTER 17. *SIPHONAPTERA (*Aphaniptera)

Anon. (1995) The fleas of Saint Nennan. *Bulletin of the Amateur Entomologists' Society* **54**: 214 (reprinted from **42**: 196). (Connaught)

Alexander, S. M. D. (1954) The birds of the Blasket Islands with special reference to Great Blasket Island, Inishvickillaun and Illaunboy and some notes on the adjacent mainland. *Bird Study* **1**: 148-168. (*Ceratophyllus* borealis Rothschild)

Baker, K. P. (1974) Observations on allergic reactions to arthropod parasites. *Irish Veterinary Journal* **28**: 65-70.

Baker, K. P. and Hatch, C. (1972) The species of fleas found on Dublin dogs. *Veterinary Record* **91**: 151-152.

Baker, K. P. and Mulcahy, R. (1986) Fleas on hedgehogs and dogs in the Dublin area. *Veterinary Record* **199**: 15-17.

Beaucournu, J. C., Launay, H. and Guiguen, C. (1983) *Ceratophyllus chasteli* Beaucournu *et al*., a flea new to the British Isles. *Entomologist's mon. Mag.* **119**: 227-228.

Brinck-Lindroth, G. (1974) Differentiation and distribution of the flea *Amalaraeus penicilliger* (Grube, 1351) in Western and Central Europe with a description of a new subspecies *A. p. pyrenaicus*. *Entomologica Scandinavica* **5**: 265-276.

Brinck-Lindroth, G. and Smit, F. G. A. M. (2007) The fleas (Siphonaptera) of Fennoscandia and Denmark. *Fauna Entomologica Scandinavica* **41**. (*Callopsylla waterstoni*, *Amalaraeus penicilliger mustelae*, *Frontopsylla laeta*, *Nycteridopsyalla longiceps*)

Butler, F. T. (1994) Arthropod and helminth parasites from rabbits *Oryctolagus cuniculus* in south-west Ireland. *Ir. Nat. J.* **24**: 392-395.

Carlisle, R. W. and Skillen, S. (1960) Fleas from Irish bats. *Ir. Nat. J.* **13**: 185-186.

Claassens, A. J. M. (1964) Some fleas new to Ireland from cliff nesting House Martins *Delichon urbica urbica* (L.) in Co. Cork. *Entomologist's mon. Mag.* **100**: 197-198.

—— (1965) The Siphonaptera of the Hirundinidae in Ireland. *Proceedings of the Royal Irish Academy* **64**B: 195-209.

—— (1965) Fleas from the woodmouse *Apodemus sylvaticus sylvaticus* (L.) in Co. Cork. *Entomologist's Gazette* **16**: 95-104.

—— (1967) Morphological anomalies in fleas (Siphonaptera). *The Journal of the Entomological Society of Southern Africa* **29**: 124-134, 1 plate.

Claassens, A. J. M. and O'Rourke, F. J. (1966) The distribution and general ecology of the Irish Siphonaptera. *Proceedings of the Royal Irish Academy* **64**B: 413-463.

Dillane, E., Kelly, T. C. and Smiddy, P. (2002) New records of fleas (Siphonaptera) from the nests of house martins. *Ir. Nat. J.* **27**: 159-163.

Dumont, P., Gale, B., Chester, T. S. and Larsen, D. L. (2014) Curative and preventive efficacy of orally administered afoxolaner against *Ctenocephalides canis* infestation in dogs. *Veterinary Parasitology* **201**: 212-215.

Editors (2014) Obituary. Robert 'Bob' Stephen George F.L.S, F.R.E.S. (1921-2013). *Entomologist's mon. Mag.* **150**: 65-68.

Fairley, J. S. (1963) Fleas from the fieldmouse *Apodemus sylvaticus* (L.) in Co. Down. *Ir. Nat. J.* **14**: 145-149.

—— (1963) *Doratopsylla dasycnema*, a flea previously unrecorded in Ireland. *Ir. Nat. J.* **14**: 122.

—— (1964) A collection of fieldmice from Rathlin Island, Northern Ireland. *Annals and Magazine of Natural History* **13**: 27-31.

—— (1965) Further observations on the distribution of the epifauna of the fieldmouse (*Apodemus sylvaticus* L.) in Ireland. *Ir. Nat. J.* **15**: 67-69.

—— (1970) Epifauna from Irish bank voles *Clethrionomys glareolus* Schreber. *Ir. Nat. J.* **16**: 342-346.

—— (1970) Some new records of fleas from Irish mammals. *Entomologist's Gazette* **21**: 21-22.

—— (1970) More records of fleas from Irish mammals. *Entomologist's Gazette* **21**: 295-299.

—— (1971) New data on the Irish stoat. *Ir. Nat. J.* **17**: 49-57.

—— (1971) *Malareus pencilliger mustelae* (Dale), a flea new to Ireland. *Entomologist's mon. Mag.* **107**: 44.

—— (1971) More records of fleas from Irish mammals (second series). *Entomologist's Gazette* **22**: 259-263.

—— (1980) Observations on a collection of feral Irish mink *Mustela vison* Schreber. *Proceedings of the Royal Irish Academy* **80**B: 79-90.

—— (1984) *An Irish beast book*. Second edition. Blackstaff Press, Belfast. (Irish mammal fleas)

—— (1997) Fleas from bank voles and field mice including *Malaraeus penicilliger* (Dale) and abundant *Rhadinopsylla pentacantha* (Rothschild). *Ir. Nat. J.* **25**: 341-342.

Fairley, J. S. and Clark, F. L. (1972) Further records of fleas from Irish birds and mammals. *Entomologist's Gazette* **23**: 66-68.

—— (1973) Further records of fleas from Irish birds and mammals (second series). *Entomologist's Gazette* **24**: 347-348.

—— (1973) *Ceratophyllus rossittensis* Dampf, a flea new to Ireland. *Entomologist's mon. Mag.* **108** (1972): 122.

Fairley, J. S. and Forster, R. (1979) Further records of fleas from Irish birds and mammals (third series). *Entomologist's Gazette* **30**: 56-58.

Fairley, J. S. and West, A. B. (1975) Fieldmice on Inishkea South, Co. Mayo. *Ir. Nat. J.* **18**: 196-198.

Feehan, J. (1983) Fleas: Order Siphonaptera. Pp 172-173. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

Freeman, R. B. (1940) *Orchopeas wickhami* Baker (Siphonaptera) in Ireland. *Entomologist's mon. Mag.* **76**: 205-206.

—— (1941) The distribution of *Orchopeas wickhami* (Baker) (Siphonaptera), in relation to its host the American Grey Squirrel. *Entomologist's mon. Mag.* **77**: 82-89.

—— (1943) *Typhloceras poppei* (Wagner) (Siph., Hystrichopsyllidae) in Oxfordshire. *Entomologist's mon. Mag.* **79**: 144.

George, R. S. (1958) More information concerning the distribution and hosts of Siphonaptera in Britain. *Entomologist's Gazette* **9**: 29-32.

—— (1969) Collecting fleas (Siphonaptera). *Bulletin of the Amateur Entomologists' Society* **28** (282): 8-15. (*Ceratophyllus gallinae gallinae*)

—— (ed.) (1974) *Provisional atlas of the insects of the British Isles. Part 4 Siphonaptera Fleas.* Biological Records Centre, Huntingdon.

—— (1988) New county records. *Bulletin of the Amateur Entomologists' Society* **47**: 215-217.

—— (1991) Three species of house martin fleas (Siphonaptera) added to the list for Co Down. *Ir. Nat. J.* **23**: 506-507.

—— (1992) BENHS indoor meetings. 10 December 1991. *British Journal of Entomology and Natural History* **5**: 88. (*Amalaraeus penicilliger mustelae* (Dale) on the vole)

—— (2008) *Atlas of the fleas (Siphonaptera) of Britain and Ireland.* Biological Records Centre, Wallingford.

Grainger, J. P. and Fairley, J. S. (1978) Studies on the biology of the pygmy shrew *Sorex minutus* in the west of Ireland. *Journal of Zoology, London* **186**: 109-141. (*Ctenophthalmus nobilis* (Rothschild), *Doratopsylla dasycnema* (Rothchild), *Hystrichopsylla talpae* (Curtis), *Palaeopsylla soricis* (Dale))

Harding, P. T. and Roy, H. (2014) Obituary. Robert 'Bob' Stephen George F.L.S, F.R.E.S. 1921-2013. *Entomologist's Rec. J. Var.* **126**: 58-62.

Hatch, C. and O'Shea, D. (1988) *Echidnophaga gallinacea* on a dog in quarantine in Ireland. *Veterinary Record* **123**: 138.

Hopkins, G. H. E. and Rothschild, M. (1953-1987) *An illustrated catalogue of the Rothschild collection of fleas (Siphonaptera) in the British Museum (Natural History).* Volumes 1-7. Cambridge University Press/Oxford University Press, London/Cambridge/Oxford.

Langley, R. and Fairley, J. S. (1982) Seasonal variations in infestations of parasites in a wood mouse *Apodemus sylvaticus* population in the west of Ireland. *Journal of Zoology, London* **198**: 249-261.

Montgomery, S. S. J. and Montgomery, W. I. (1990) Intrapopulation variation in the diet of the wood mouse *Apodemus sylvaticus*. *Journal of Zoology, London* **222**: 641-651. (*Ctenophthalmus nobilis*)

Mulcahy, M. F., Kelly, T. C. and Holland, C. (1998) Parasites and pathology of Irish freshwater animals. Pp 159-178. *In* Giller, P. S. (ed.) *Studies in Irish Limnology.* The Marine Institute, Dublin.

Mulcahy, R. M. (1987) Fleas from hedgehogs in Ireland. *Ir. Nat. J.* **22**: 346-347.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

O'Connor, J. P. (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Gorman, F. (1965) *Ischnopsyllus octactenus* (Kolenati) (Siphonaptera, Ischnopsyllidae) a bat flea from mid County Cork. *Ir. Nat. J.* **15**: 107-108.

O'Gorman, F. and Claassens, A. J. M. (1965) Siphonaptera new to Co. Kilkenny. *Ir. Nat. J.* **15**: 69-72.

—— (1965) The second record of *Ischnopsyllus* (*Ischnopsyllus*) *simplex simplex* Rothschild 1906 (Siphonaptera) in Ireland. *Ir. Nat. J.* **15**: 75-76.

—— (1965) Sex ratio of fleas from Irish bats. *Entomologist's Gazette* **16**: 20-24.

O'Mahony, E. (1939) A preliminary list of Irish fleas. *Entomologist's mon. Mag.* **75**: 124-126.

—— (1940) Notes on Irish Siphonaptera. *Entomologist's mon. Mag.* **75**: 253-254.

—— (1941) Notes on Irish Siphonaptera. II. *Entomologist's mon. Mag.* **76**: 205.

—— (1941) Notes on Irish Siphonaptera. III. *Entomologist's mon. Mag.* **77**: 208.

—— (1941) Notes on Irish Siphonaptera. IV. *Entomologist's mon. Mag.* **77**: 231.

—— (1942) Notes on Irish Siphonaptera. V. *Entomologist's mon. Mag.* **77**: 199.

—— (1947) The mammal ecto-parasites of the North Bull Island, Dublin Bay. *Ir. Nat. J.* **9**: 78-79.

—— (1947) *Leptinus testaceus* Mull. (Col., Leptinidae), additional Irish records. *Entomologist's mon. Mag.* **83**: 190. (Col., Siphon.)

—— (1948) Some miscellaneous Siphonaptera. *Entomologist's mon. Mag.* **84**: 89.

—— (1949) The fleas of the North Bull Island, Dublin Bay. *Entomologist's mon. Mag.* **85**: 139-140.

O'Rourke, F. J. (1964) *Ischnopsyllus intermedius* (Rothschild), a bat flea new to Co. Cork. *Ir. Nat. J.* **14**: 315-316.

O'Sullivan, H. M., Smal, C. M. and Fairley, J. S. (1984) A study of parasite infestations in populations of small rodents (*Apodemus sylvaticus* and *Clethrionomys glareolus*) on Ross Island, Killarney. *Journal of Life Sciences of the Royal Dublin Society* **5**: 29-42.

Palmer, R. F. and Skillen, S. (1962) Fleas from Irish bats. *Ir. Nat. J.* **14**: 78.

Pilgrim, R. L. C. and Galloway, T. D. (2003) Descriptions of flea larvae (Siphonaptera: Ceratophyllidae, Leptopsyllidae) found in nests of the house martin, *Delichon urbica* (Aves: Hirundinidae), in Great Britain. *Journal of Natural History* **37**: 473-502.

Regan, E. (2009) *Irish butterflies and insects*. Appletree Press, Belfast.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Roberts, C. J. (1972) Further information concerning the distribution and hosts of Siphonaptera in Great Britain. *Entomologist* **105**: 245-250.

Ross, J. G. and Fairley, J. S. (1969) Studies of disease in the red fox (*Vulpes vulpes*) in Northern Ireland. *Journal of Zoology, London* **157**: 375-381.

Rothschild, M. (1948) Bird fleas collected by Miss Theresa Clay, Colonel Richard Meinertzhagen and Capt. W.H. Pollen in the Island of Ushant, Brittany, France, with a note on the distribution of *Ceratophyllus borealis* Rothschild (1907). *Entomologist* **81**: 84-95.

Rothschild, N. V. (1899) Irish fleas. *Ir. Nat.* **8**: 266.

—— (1915) A synopsis of the British Siphonaptera. *Entomologist's mon. Mag.* **51**: 49-112.

Skillen, S. (1960) Fleas from Irish bats. *Ir. Nat. J.* **13**: 185-186.

Skillen, S. and Carlisle, R. W. (1960) *Ceratophyllus styx jordani* Smit 1955. *Ir. Nat. J.* **13**: 190-191.

Sleeman, D. P. (1981) Fleas from Irish mammals. *Ir. Nat. J.* **20**: 244-247.

—— (1983) *Rhadinopsylla pentacantha* (Rothschild) a rare flea from a wood mouse. *Ir. Nat. J.* **21**: 191.

—— (1986) Recent records of Irish fleas (Siphonaptera). *Ir. Nat. J.* **22**: 80-81.

—— (1986) Insect ectoparasites of Irish grey squirrels (*Sciurus carolinensis* Gmelin). *Ir. Nat. J.* **22**: 117.

—— (1987) Records of fleas (Siphonaptera) from Irish stoats. *Ir. Nat. J.* **22**: 257-258.

—— (1989) Ectoparasites of the Irish stoat. *Medical and Veterinary Entomology* **3**: 213-218.

—— (1990) Bat flea *Ischnopsyllus elongatus* (Curtis) (Siphonaptera) new to Ireland. *Ir. Nat. J.* **23**: 222.

—— (2018) Records of fleas (Siphonaptera) from rats and a shrew. *Ir. Nat. J.* **36**: 47-48.

Sleeman, D. P. and Kelly, T. C. (1987) Records of fleas (Siphonaptera) from common rats in Ireland. *Ir. Nat. J.* **22**: 256-257.

Sleeman, D. P. and Smiddy, P. (1994) Bat fleas in Ireland: a review. *Ir. Nat. J.* **24**: 444-448.

—— (1994) Records of fleas (Siphonaptera) from Irish mammals and birds. *Ir. Nat. J.* **24**: 465-467.

—— (2004) Flea (Siphonaptera) records from Irish mammals and birds. *Ir. Nat. J.* **27**: 405-407.

Sleeman, D. P., Smiddy, P. and Moore, P. (1996) The fleas of Irish terrestrial mammal: a review. *Ir. Nat. J.* **25**: 237-248.

Sleeman, P. (1997) Mammals and mammalogy. Pp 241-261. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

Smiddy, P. and Sleeman, D. P. (1992) Records of the flea *Dasypsyllus gallinulae gallinulae* (Dale) from the nests of Irish dippers *Cinclus cinclus hibernicus* Hartert. *Ir. Nat. J.* **24**: 169-170.

Smiddy, P. and Sleeman, D. P. (1993) Avian fleas in Ireland: a review of their distribution and hosts. *Irish Birds* **5**: 55-60.

—— (1999) More records of fleas (Siphonaptera) from Irish mammals and birds. *Ir. Nat. J.* **26** (1998): 124-126.

Smit, F. G. A. M. (1957) Siphonaptera. *Handbooks for the Identification of British Insects* **1**(16): 1-94.

—— (1957) The recorded distribution and hosts of Siphonaptera in Britain. *Entomologist's Gazette* **8**: 45-75.

—— (1975) A new subspecies of shrew-flea, with a Lusitanian distribution. *Entomologist's Gazette* **26**: 274-276.

Smit, F. G. A. M. and Rothschild, M. (1955) Two new subspecies of fleas (Siphonaptera) from the British Isles with a discussion on their distribution. *Transactions of the Royal Entomological Society of London* **107**: 341-356, Figs. 1-79.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Stuart, P. and Sleeman, D. P. (2006) Fleas from bank voles (*Clethrionomys glareolus* Schreber) near Foynes, Co Limerick. *Ir. Nat. J.* **28**: 221.

Thompson, G. B. (1935) The parasites of British birds and mammals. IV. - Records of mammal parasites. *Entomologist's mon. Mag.* **71**: 214-219.

—— (1937) The parasites of British birds and mammals XII. On some parasites from the burrows of puffins. *Entomologist's mon. Mag.* **73**: 87-88.

—— (1937) The parasites of British birds and mammals. XIII. Records of Siphonaptera bred from bird's nests. *Entomologist's mon. Mag.* **73**: 105-107.

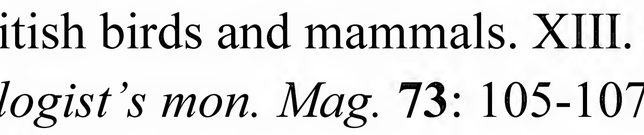
—— (1952) The parasites of British birds and mammals. - XXIV. Sand martin's fleas. *Entomologist's mon. Mag.* **88**: 177-179. (*Ceratophyllus styx*, Co. Dublin)

—— (1954) The parasites of British birds and mammals. XXVII. Some notes on *Ceratophyllus borealis* Rothschild (1907) (Siphonaptera). *Entomologist's mon. Mag.* **90**: 4-9.

University College Dublin (2020) Fleas (Siphonaptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/70>

Wall, R., Shaw, S. E. and Penaliggon, J. (1997) The prevalence of flea species on cats and dogs in Ireland. *Medical and Veterinary Entomology* **11**: 404-406.

Whitaker, A. P. (2007) Fleas (Siphonaptera). *Handbooks for the Identification of British Insects* **1**(16): 178pp. Second edition.



CHAPTER 18. *THYSANOPTERA

Bagnall, R. S. (1909) *Cryptothrips dentipes*, a genus and species of Thysanoptera new to the British Isles. *Ir. Nat.* **18**: 41.

—— (1909) Notes on Thysanoptera (Tubulifera) new to the British fauna, with description of a new species of *Megathrips*. *Entomologist's mon. Mag.* **45**: 129-132.

Bagnall, R. S. (1909) Preliminary description of a new and injurious thrips. *Entomologist's mon. Mag.* **45**: 33-34.

—— (1910) The Orchard Thrips: *Anaphothrips orchidaceus*, Bagnall. *Entomologist's Rec. J. Var.* **22**: 287.

de Courcy Williams, M. and Dorman, J. (1986) The insect flotsam of Courtmacsherry Bay, Co Cork. *Ir. Nat. J.* **22**: 89-92.

Dunne, R. and O'Connor, J. P. (1989) Some insects (Thysanoptera: Diptera) of economic importance, new to Ireland. *Ir. Nat. J.* **23**: 63-65.

—— (1997) *Echinothrips americanus* (Thysanoptera: Thripidae) new to Ireland. *Ir. Nat. J.* **25**: 412-413.

Grainger, J. P. and Fairley, J. S. (1978) Studies on the biology of the pygmy shrew *Sorex minutus* in the west of Ireland. *Journal of Zoology, London* **186**: 109-141.

Haliday, A. H. (1836) An epitome of the British genera, in the Order Thysanoptera, with indications of a few of the species. *The Entomological Magazine* **3**: 439-451.

Hume, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

McCracken, A. R. and Blackshaw, R. P. (1993) The protection of the Northern Ireland nursery stock industry from harmful organisms. Pp 55-66. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Morison, G. D. (1929) Observations and records for some Thysanoptera from Great Britain. IV. *Amblythrips ericae* (Haliday). *Entomologist's mon. Mag.* **65**: 22-28.

—— (1929) Observations and records for some Thysanoptera from Great Britain. V. *Physothrips* spp. *Entomologist's mon. Mag.* **65**: 113-127.

—— (1957) A review of British glasshouse Thysanoptera. *Transactions of the Royal Entomological Society of London* **109**: 467-520.

—— (1968) Observations and records for some British Thysanoptera VII. Thripidae, *Thrips flavus* Schrank and *Thrips brevicornis* Priesner. *Entomologist* **101**: 205-212.

—— (1969) Observations and records for some British Thysanoptera XI. Thripidae, *Belothrips acuminatus* Haliday. *Entomologist* **102**: 165-172.

—— (1971) Observations and records for British Thysanoptera. XV. Thripidae, *Thrips discolor* Haliday. *Entomologist* **104**: 276-281.

—— (1973) Observations and records for British Thysanoptera. XVII. Thripidae, *Baliothrips dispar* (Haliday). *Entomologist* **106**: 157-164.

—— (1974) Observations and records for British Tysanoptera. XVIII. Phlaeothripidae. *Haplothrips statices* (Haliday). *Entomologist's Gazette* **25**: 35-43.

—— (1974) Observations and records for British Thysanoptera. XVI. Thripidae, *Apterothrips secticornis* (Trybon), a species new to Britain. *Entomologist's mon. Mag.* **109** (1973): 208-210.

Mound, L. A., Collins, D. W. and Hastings, A. (2018) *Thysanoptera Britannica et Hibernica - Thrips of the British Isles*. Lucidcentral.org, Identic Pty Ltd, Queensland, Australia. <https://keys.lucidcentral.org/keys/v3/british_thrips/acknowledge.html>

Mound, L. A., Morison, G. D., Pitkin, B. R. and Palmer, J. M. (1976) Thysanoptera. *Handbooks for the Identification of British Insects* **1**(11): 1-79.

Nash, R. and O'Connor, J. P. (2011) Notes on the Irish entomologist Alexander Henry Haliday (1806-1870). *Bulletin of the Irish Biogeographical Society* **35**: 64-112.

O'Connor, J. P. (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2008) A review of the Irish thrips (Thysanoptera). *Ir. Nat. J.* **29**: 20-24 (Corrigendum published by editor (2009) in *Ir. Nat. J.* **29** (2009): 150. ("Thrips" had been changed to "Thrip" after the proof stage)

O'Connor, J. P. and Ashe, P. (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165.

O'Connor, J. P. and Nash, R. (1982) Notes on the entomological collection of A. H. Haliday (1806-1870) in the National Museum of Ireland, with a recommendation for type designations. *Proceedings of the Royal Irish Academy* **82**B: 169-175, plates I-IV.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

Pitkin, B. R. (1972) A revision of the flower-living Genus *Odontothrips* Amyot & Serville (Thysanoptera: Thripidae). *Bulletin of the British Museum of Natural History* (Entomology) **26**: 371-402.

—— (1976) The hosts and distribution of British thrips. *Ecological Entomology* **1**: 41-47. (mentions twenty six Irish species but the names are not listed)

—— (1976) Notes on *Thrips physapus* L., *hukkineni* Priesner and *fuscipennis* Haliday (Thysanoptera: Thripidae) in Britain. *Entomologist's Gazette* **27**: 173-178.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Sherrard, G. O. (1911) (*Heliothrips haemorrhoidalis*). *Ir. Nat.* **20**: 13.

Smith, K. G. V. (1951) Notes on some Thysanoptera from Eastern Ireland. *Journal of the Society for British Entomology* **4**: 45-46.

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Speyer, E. R. (1935) The genus *Aptinothrips* Haliday (Thysanoptera: Terebrantia). *Transactions of the Royal Entomological Society of London* **83**: 483-508, plate xiv.

Stokes, K., O'Neill, K. and McDonald, R. A. (2004) *Invasive species in Ireland*. Unpublished report to Environment and Heritage Services and National Parks and Wildlife Service. Quercus, Queen's University Belfast, Belfast.



CHAPTER 19. *TRICHOPTERA

Anon. (1974) A check list of the Irish cave fauna. Trogloxene, troglophile and troglobite. *Transactions of the Cave Research Group of Great Britain* **15**: 221-222.

—— (2007) Royal Irish Academy. Praeger Fund for Field Natural History. *Ir. Nat. J.* **28** (2006): 335.

Agnew, P. and Perry, K. W. (1993) The diet of breeding dippers in north-west Ireland during the period of incubation. *Irish Birds* **5**: 49-54.

Ashe, P. (1995) Description of a late-instar larva of *Buchonomyia thienemanni* Fittkau and further data on its ecology with diagnoses for the subfamily Buchonomyiinae and the genus *Buchonomyia* (Diptera: Chironomidae). Pp 425-429. *In* Cranston, P. (ed.) *Chironomids. from genes to ecosystems.* CSIRO, Melbourne.

Ashe, P., O'Connor, J. P. and Murray, D. A. (1998) A checklist of Irish aquatic insects. *Occasional Publication of the Irish Biogeographical Society* **Number 3**: 1-80.

—— (2000) Larvae of *Eurycnemus crassipes* (Panzer) (Diptera: Chironomidae) ectoparasitic on prepupae/pupae of *Hydropsyche siltalai* Döhler (Trichoptera: Hydropsychidae), with a summary of known chironomid/trichopteran associations. *Spixiana* **23**: 267-274.

Baars, J.-R., Murray, D. A., Hannigan, E. and Kelly-Quinn, M. (2014) Macroinvertebrate assemblages of small upland peatland lakes in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 233-248.

Badcock, R. M. (1976) The distribution of the Hydropsychidae in Great Britain. *Proceedings of the 1st International Symposium on Trichoptera, 1974*: pp 49-58.

Barnard, P. and Ross, E. (2012) The adult Trichoptera (caddisflies) of Britain and Ireland. *Handbooks for the Identification of British Insects* **1**(17): i-iv, 1-192.

Barnard, P. C. (1985) An annotated check-list of the Trichoptera of Britain and Ireland. *Entomologist's Gazette* **36**: 31-45.

Barnard, P. C. and O'Connor, J. P. (1987) The populations of *Apatania muliebris* McLachlan in the British Isles (Trichoptera: Limnephilidae). *Entomologist's Gazette* **38**: 263-267.

Baynes, E. S. A. (1950) Trichoptera, A new Irish record. *Ir. Nat. J.* **11**: 80.

Beirne, B. P. (1939) Irish Trichoptera records. *Journal of the Society for British Entomology* **2**: 8.

—— (1941) Four year's captures of insects in light-traps in Ireland. *Entomologist's Rec. J. Var.* **53**: 44-50.

Berté, S. B. and Wallace, I. D. (1987) Larvae of *Coniosternum minuta* (Malloch) and *C. obscura* Fallén (Dipt., Scathophagidae) feeding on eggs of Trichoptera in Canada and Ireland. *Entomologist's mon. Mag.* **123**: 181-184.

Boon, P. J. (1978) The use of ventral sclerites in the taxonomy of larval hydropsychids. *Proceedings of the 2nd International Symposium on Trichoptera, 1977*: pp 165-173.

Botosaneanu, L. and Malicky, H. (1978) Trichoptera. Pp 333-359. *In* Illies, J. (ed.) *Limnofauna Europaea*.

Bracken, J., Norton, M. and Phillips, H. (1991) A progress report on the rehabilitation of the Kilmastulla River, Co. Tipperary (1986-1988). Pp 115-134. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Bracken, J. J. and Murray, D. A. (1973) Insect emergence data from four small lakes in the South and Southwest of Ireland. *Irish Fisheries Investigations Series A* **No. 11**.

Brophy, J. (2020) trichopteraireland. The distribution and autecology of caddisflies (Trichoptera) in Ireland. <https://trichopteraireland.wordpress.com/>

Brophy, J. T. and O'Connor, J. P. (2020) A new site for *Tricholeiochiton fagesii* (Guinard, 1879) (Trichoptera: Hydroptilidae) in Ireland. *Entomologist's Rec. J. Var.* **132**: 244-248.

Byrne, R. A. and Reynolds, J. D. (1982) Preliminary notes on a doline in Lough Gealain, the Burren, County Clare. *Ir. Nat. J.* **20**: 375-377.

Callanan, M., Baars, J.-R. and Kelly-Quinn, M. (2014) Macroinvertebrate communities of Irish headwater streams: contribution to catchment biodiversity. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 143-162.

Carlsson, J., Cross, T., McGinnity, P., Prodohl, P. and McDevitt, A. (2014) The use of genetics to infer the origins of the terrestrial and freshwater elements of the Irish fauna. Pp 8-27. *In* Sleeman, D. P., Carlsson, J. and Carlsson, J. E. L. (eds) *Mind the Gap II: new insights into the Irish postglacial*. Irish Naturalists' Journal, Belfast. 150pp. (Trich.: *Plectrocnemia conspersa*)

Carpenter, G. H. (1902) Neuroptera. Pp 215-216. *In* Bigger, F. J., Praeger, R. L. and Vinycomb, J. (eds) *Belfast, 1902. A guide to Belfast and the Counties of Down & Antrim. Prepared for the Meeting of the British Association by the Belfast Naturalists' Field Club.* M'Caw, Stevenson & Orr, Limited, Belfast.

Carter, D. J. (1967) The Lepidoptera, Trichoptera and Odonata of Cape Clear Island. *Cape Clear Bird Observatory Report* **8**: 45-46.

Chinery, M. (2005) *Complete British insects*. HarperCollins, London.

Clabby, K. J. and Bracken, J. J. (1976) The Glencullen River Survey. *Scientific Proceedings of the Royal Dublin Society Ser. B.* **3**: 355-370.

Cooke, B. (1878) *Phryganea obsoleta* in Ireland. *Entomologist's mon. Mag.* **15**: 19.

Crofts, S. M. (2019) *Caddisfly adults (Trichoptera) of Britain and Ireland. Family level keys and introductory guide.* Freshwater Biological Association. *Scientific Publication* **No. 70**.

Curtis, J. (1824-1839) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* 16 volumes (192 parts). Printed for the author, London.

—— (1829-1840) *British entomology: being illustrations and descriptions of the genera of insects found in Great Britain and Ireland: containing coloured figures from nature of the most rare and beautiful species, and in many instances of the plants upon which they are found.* Second edition. Printed for the author, London.

Cuthbert, H. K. G. (1894) (Insects from Rush). *Ir. Nat.* **3**: 241.

Dauod, H. A., Bolger, T. and Bracken, J. J. (1985) Studies on the minnow *Phoxinus phoxinus* (L.) from an upland Irish reservoir system. *Irish Fisheries Investigations Series A* **No. 26**: 3-22.

—— (1985) Studies on the three-spined stickleback *Gasterosteus aculeatus* L. from an upland reservoir system. *Irish Fisheries Investigations Series A* **No. 27**: 3-16.

—— (1986) Age, growth and diet of the brown trout *Salmo trutta* L. in the Roundwood Reservoir system. *Irish Fisheries Investigations Series A* **No. 28**: 3-21.

Davis, S. J., Mellander, P.-E., Kelly, A.-M., Matthaei, C. D., Piggott, J. J. and Kelly-Quinn, M. (2018) Multiple-stressor effects of sediment, phosphorus and nitrogen on stream macroinvertebrate communities. *Science of the Total Environment* **637**: 577-587.

de Eyto, E., Doyle, B., King, N., Kilbane, T., Finlay, R., Sibigtroth, L., Graham, C., Poole, R., Ryder, E., Dillane, M. and Jennings, E. (2020) Characterisation of salmonid food webs in the rivers and lakes of an Irish peatland ecosystem. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 1-17.

Dineen, G., Harrison, S. S. C. and Giller, P. S. (2007) Seasonal analysis of aquatic and terrestrial invertebrate supply to streams with grassland and deciduous riparian vegetation. *Biology and Environment: Proceedings of the Royal Irish Academy* **107**B: 167-182. (no species mentioned)

Doherty, D. and McCarthy, T. K. (2000) The metazoan parasites, diets and general biology of arctic char, *Salvelinus alpinus* L., in two Irish lakes. *Verh. Internat. Verein. Limnol.* **27**: 1056-1061.

Dowling, C., O'Connor, J. P. and O'Grady, M. F. (1981) A baseline survey of the Caragh, an unpolluted river in southwest Ireland: observations on the macroinvertebrates. *Journal of Life Sciences of the Royal Dublin Society* **2**: 147-159.

Drinan, T. J., O'Halloran J. and Harrison S. S. C. (2013) Variation in the physico-chemical and biologicial characteristics between upland and lowland (Atlantic) blanket bog lakes in western Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **113**B: 67-92. (the latitudes for three of the lakes are incorrect, 50 should read 53)

Duke, M. J. (1994) New records of *Beraeodes minutus* (L.) and *Allotrichia pallicornis* (Eaton) (Trichoptera) in Ireland. *Bulletin of the Irish Biogeographical Society* **17**: 7-8.

Edington, J. M. and Alderson, R. (1973) The taxonomy of British psychomyiid larvae. *Freshwater Biology* **3**: 463-478.

Edington, J. M. and Hildrew, A. G. (1981) A key to the caseless caddis larvae of the British Isles with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **No. 43**: 1-92.

—— (1995) A revised key to the caseless caddis larvae of the British Isles with notes on their ecology. *Scientific Publications of the Freshwater Biological Association* **No. 53**: 1-134.

Fahy, E. (1972) Some records of Trichoptera from Ireland. *Ir. Nat. J.* **17**: 199-203.

—— (1972) The larva of *Hydroptila forcipata* (Eaton) (Trich., Hydroptilidae). *Entomologist's mon. Mag.* **107** (1971): 145-148.

—— (1972) Studies on the Trichoptera of a stony stream system in Western Ireland. *Entomologist's mon. Mag.* **108**: 52-59.

Feehan, J. (1983) Caddisflies: Order Trichoptera. p. 178. *In* Feehan, J. (ed.) *Laois. An environmental history.* Ballykilcavan Press, Stradbally.

Feeley, H. B., Bradley, C., Free, G., Kennedy, B., Little, R., McDonnell, N. and Plant, C. (2020) A national macroinvertebrate dataset collected for the biomonitoring of Ireland's river network, 2007-2018. *Scientific Data* **7**: 1-9.

Feeley, H. B., Davis, S., Bruen, M., Blacklocke, S. and Kelly-Quinn, M. (2012) The impact of a catastrophic storm event on benthic macroinvertebrate communities in upland headwater streams and potential implications for ecological diversity and assessment of ecological status. *Journal of Limnology* **71**: 299-308.

Feeley, H. B. and Kelly-Quinn, M. (2012) An evaluation of local and regional diversity of benthic macroinvertebrate communities in two small regions of Ireland and their potential as localised refugia for certain taxonomic groups. *Biology and Environment: Proceedings of the Royal Irish Academy* **112**B: 43-54.

—— (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218.

Fisher, D. (1977) Identification of adult females of *Tinodes* in Britain (Trichoptera: Psychomyiidae). *Systematic Entomology* **2**: 105-110.

Flavin, D. A., Biggane, S. S., Shiel, C. B., Smiddy, P. and Fairley, J. S. (2001) Analysis of the diet of Daubenton's bat *Myotis daubentonii* in Ireland. *Acta Theriologica* **46**: 43-52.

Gammell, M. (2010) Caddisfly Records, Edenvale, Co. Wexford 2010, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/98>

Gammell, M. P., Carlin, C. M., O'Connor, J. P., O'Connor, M. A. and Brophy, J. T. (2018) The Window Winged Sedge *Hagenella clathrata* (Kolenati, 1848) (Trichoptera: Phryganeidae) confirmed as an Irish species. *Bulletin of the Irish Biogeographical Society* **42**: 45-57.

Giller, P. S., O'Connor, J. P. and Kelly-Quinn, M. (1998) Freshwater macroinvertebrates. Pp 125-157. *In* Giller, P. S. (ed.) *Studies in Irish Limnology*. The Marine Institute, Dublin.

Giller, P. S. and Sangpradub, N. (1993) Predatory foraging behaviour and activity patterns of larvae of two species of limnephilid cased caddis. *Oikos* **67**: 351-357.

Giller, P. S. and Twomey, H. (1993) Benthic macroinvertebrate community organisation in two contrasting rivers - between-site differences and seasonal patterns. *Biology and Environment: Proceedings of the Royal Irish Academy* **93**B: 115-126.

Hagen, H. A. (1860-61) Neuroptera. Synopsis of the British Phryganidae. *The Entomologist's Annual* **1860**: 66-85. **1861**: 1-16.

Halbert, J. N. (1908) Neuroptera. Pp 170-171. *In* Cole, G. A. J. and Praeger, R. L. (eds) *Dublin 1908. Handbook to the City of Dublin and the surrounding district. Prepared for the Meeting of the British Association, September, 1908.* The University Press, Ponsonby & Gibbs, Dublin.

—— (1912) Clare Island Survey. 27. Neuroptera. *Proceedings of the Royal Irish Academy* **31**(27): 4pp.

Hannigan, E. and Kelly-Quinn, M. (2014) Aquatic invertebrate communities of ombrotrophic bogs in Ireland with special reference to microcrustaceans. *Biology and Environment: Proceedings of the Royal Irish Academy* **114B**: 249-263.

Hannigan, E., Kelly-Quinn, M. and O'Connor, J. P. (2009) Notable caddisflies (Trichoptera) from Scragh Bog, Co. Westmeath, including *Erotesis baltica* McLachlan new to Ireland. *Bulletin of the Irish Biogeographical Society* **33**: 76-80.

Hannigan, E., Mangan, R. and Kelly-Quinn, M. (2011) Evaluation of the success of mountain blanket bog pool restoration in terms of aquatic macroinvertebrates. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 95-105.

Hazelton, M. (1974) The fauna from some of the Irish caves. *Transactions of the Cave Research Group of Great Britain* **15**: 191-202.

—— (1974) Irish vice county records of fauna collected from the hypogean and related zones. *Transactions of the Cave Research Group of Great Britain* **15**: 203-215.

—— (1974) Hypogean fauna recorded from Ireland 1952-1971. *Transactions of the Cave Research Group of Great Britain* **15**: 225-252.

Healy, B. (1997) Long-term changes in a brackish lagoon, Lady's Island Lake, South-East Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **97**B: 33-51.

—— (1998) Records of aquatic fauna from coastal lagoons in Ireland. *Bulletin of the Irish Biogeographical Society* **21**: 66-115.

Healy, B., Bates, R. and McGrath, D. (1982) Marine fauna of County Wexford - 5. Lady's Island Lake. *Ir. Nat. J.* **20**: 510-526.

Hickin, N. E. (1951) Two Irish caddis flies. *Entomologist* **84**: 131.

—— (1952) Larvae of the British Trichoptera - 34. *Tinodes assimilis* McLachlan (Psychomyidae). *Proceedings of the Royal Entomological Society of London A* **27**: 89-90.

—— (1967) *Caddis larvae. Larvae of the British Trichoptera.* Hutchinson, London. i-xii, 1-476. (superseded by later keys)

Hiley, P. D. (1976) The identification of British limnephilid larvae (Trichoptera). *Systematic Entomology* **l**: 147-167.

InvertebrateIreland Online (2006) Irish Trichoptera (Caddisflies). National Museums of Northern Ireland. <http://www.habitas.org.uk/InvertebrateIreland/speciesstats.asp?Checklist=7>

Jenkins, R. A. (1977) A record of *Oecetis notata* (Rambur) (Trichoptera: Leptoceridae) from South-West Wales. *Entomologist's Rec. J. Var.* **89**: 52-53.

Johnson, M. J., Giller, P. S., O'Halloran, J., O'Gorman, K. and Gallagher, M. B. (2005) A novel approach to assess the impact of land use activity on chemical and biological parameters in river catchments. *Freshwater Biology* **50**: 1273-1289.

Johnson, W. F. (1893) Additions to the Irish List of Neuroptera. *Entomologist's mon. Mag.* **29**: 287. (Neur., Plec., Trich.)

—— (1894) *Tinodes unicolor*, Pict., in Ireland. *Entomologist's mon. Mag.* **30**: 236. (& spp)

Kavanagh, J. A. and Harrison, S. S. C. (2014) The contribution of a drainage network to the spatial and temporal patterns of macroinvertebrate diversity across an agricultural headwater catchment. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 181-197.

Kelly-Quinn, M. (1991) The diel feeding pattern of brown trout (*Salmo trutta* L.) in acid streams during the summer and autumn months. Pp 47-57. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Kelly-Quinn, M. and Bracken, J. J. (1988) A comparative study of two tributaries of the River Dodder - The Owendoher and the Dundrum Stream. *Irish Fisheries Investigations Series A* **No. 30**: 3-16.

Kelly-Quinn, M., Bradley, C., Murray, D., Tierney, D., Ashe, P., Bracken, J. and McGarrigle, M. (2002) Physico-chemical characteristics and macroinvertebrate communities of the Caher River. *Biology and Environment: Proceedings of the Royal Irish Academy* **103**B: 119-124.

Kelly-Quinn, M., Feeley, H. and Bradley, C. (2020) Status of freshwater invertebrate biodiversity in Ireland's rivers - time to take stock. *Biology and Environment: Proceedings of the Royal Irish Academy* **120**B: 65-82.

Kibichii, S., Feeley, H. B., Baars, J.-R. and Kelly-Quinn, M. (2015) The influence of water quality on hyporheic invertebrate communities in agricultural catchments. *Marine and Freshwater Research* **66**: 805-814. <http://dx.doi.org/10.1071/MF14214>

Kidd, L. N. (1963) A note on the distribution of *Limnephilus xanthodes* McLach. (Trichoptera). *Entomologist* **96**: 246-247.

Kimmins, D. E. (1932) British Trichoptera, Ephemeroptera, and Plecoptera in 1930-1931. *Entomologist's mon. Mag.* **68**: 156-161. (Eph., Trich.)

—— (1934) British Ephemeroptera, Plecoptera and Trichoptera in 1933. *Entomologist's mon. Mag.* **70**: 62-66. (Eph., Trich.)

—— (1958) The British species of the Genus *Oxyethira* (Trichoptera: Hydroptilidae). *Entomologist's Gazette* **9**: 7-17.

—— (1960) The lectotype of *Thya maurus* Curtis, 1834, (*Beraea maurus* Curtis, 1834) (Trichoptera, Beraeidae). *Entomologist's Gazette* **11**: 202-203.

—— (1965) Keys to the British species of Rhyacophilidae and Philopotamidae. *Entomologist's Gazette* **16**: 147-161.

King, J. J. F. X. (1888) A contribution towards a catalogue of the neuropterous fauna of Ireland. *Transactions of the Natural History Society of Glasgow* **2**: 259-292. (reprinted 1889 by the Natural History Society of Glasgow, Glasgow)

—— (1888) Notes on *Philopotamus montanus*, var. *scoticus*. *Entomologist's mon. Mag.* **24**: 214-215.

—— (1888) *Molanna palpata*, McL., in Ireland. *Entomologist's mon. Mag.* **25**: 93.

—— (1889) Two species of Trichoptera new to the British List. *Entomologist's mon. Mag.* **25**: 235.

—— (1889) *Holocentropus stagnalis*, Albarda, in Ireland. *Entomologist's mon. Mag.* **25**: 235.

—— (1889) *Tinodes maculicornis* at Athlone. *Entomologist's mon. Mag.* **25**: 283.

—— (1891) Notes on some Irish Trichoptera. *Entomologist's mon. Mag.* **27**: 111.

King, J. J. F. X. and Halbert, J. N. (1910) A list of the Neuroptera of Ireland. *Proceedings of the Royal Irish Academy* **28**B: 29-112.



Klima, F. and Weidlich, M. (1993) *Limnephilus pati* O'Connor, 1980 - eine neue Köcherfliegenart für die Fauna Brandenburgs - Zweitnachweis für die Bundesrepublik Deutschland (Insecta, Trichoptera). *Brandenburgischen Entomologischen Nachrichten, Potsdam* **1**: 14-15.

Knight, L. R. F. D. and Penk, M. R. (2010) Groundwater Crustacea of Ireland: a survey of the stygobitic Malacostraca in caves and springs. *Biology and Environment: Proceedings of the Royal Irish Academy* **110**B: 211-235.

Lucey, J. (1991) Invertebrates as pollution indicators in Irish rivers. Pp 135-150. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Lucy, F., Costello, M. J. and Giller, P. S. (1990) Diet of *Dinocras cephalotes* and *Perla bipunctata* (Plecoptera, Perlidae) in a south-west Irish stream. *Aquatic Insects* **12**: 199-207.

Marshall, J. E. (1977) *Hydroptila martini* sp.n. and *Hydroptila valesiaca* Schmid (Trichoptera: Hydroptilidae) new to the British Isles. *Entomologist's Gazette* **28**: 115-122.

—— (1978) Trichoptera Hydroptilidae. *Handbooks for the Identification of British Insects* **I**(14a): 1-30.

—— (ed.) (1978) *European invertebrate survey. Provisional atlas of the insects of the British Isles Part 8. Trichoptera Hydroptilidae Caddisflies (Part 1).* Natural Environment Research Council, Institute of Terrestrial Ecology, Monks Wood Experimental Station, Huntingdon.

—— (1979) A description of the female of *Hydroptila tigurina* Ris (Trichoptera: Hydroptilidae). *Entomologist's Gazette* **30**: 213-214.

McKie, B. G., Woodward, G., Hladyz, S., Nistorescu, M., Preda, E., Popescu, C., Giller, P. S. and Malmqvist, B. (2008) Ecosystem functioning in stream assemblages from different regions: contrasting responses to variation in detritivore richness, evenness and density. *Journal of Animal Ecology* **77**: 495-504.

McLachlan, R. (1861) *Limnophilus borealis*. *Entomologist's Weekly Intelligence* **10**: 163.

—— (1862) Notes on British Trichoptera, with descriptions of new species, etc. *The Entomologist's Annual* **1862**: 21-37.

—— (1874-1884) *A monographic revision and synopsis of the Trichoptera of the European fauna.* Part 1. Further parts and supplements published in 1874, 1875, 1876, 1877, 1878, 1879, 1880 and 1884. Reprinted 1968. E. W. Classey, Middlesex.

—— (1877) Description of a new species of *Setodes* occurring in the British Isles. *Entomologist's mon. Mag.* **14**: 105-106.

—— (1877) *Phryganea obsoleta* in Ireland. *Entomologist's mon. Mag.* **14**: 117.

—— (1885) Trichoptera from Belfast. *Entomologist's mon. Mag.* **22**: 165.

—— (1902) A black variety of *Holocentropus picicornis*, Steph. (Trichoptera) from South-West Ireland. *Entomologist's mon. Mag.* **38**: 112. (& spp.)

—— (1903) A few "Neuroptera" from South-West Ireland. *Entomologist's mon. Mag.* **39**: 14.

Moriarty, C. (1972) Caddis larvae (Trichoptera) prey and predation. *Ir. Nat. J.* **17**: 206.

—— (1973) Distribution of freshwater macroinvertebrates in Ireland. 1967-1972. *Ir. Nat. J.* **17**: 409-412.

Morton, K. J. (1883) Occurrence of *Oecetis furva*, Ramb., and other Trichoptera in Co. Monaghan. *Entomologist's mon. Mag.* **20**: 142.

—— (1886) *Agrypnia pagetana*, Curt., and other Trichoptera in Ireland. *Entomologist's mon. Mag.* **23**: 138.

—— (1887) *Apatania fimbriata*, Pict., a caddis-fly new to the British Isles. *Entomologist's mon. Mag.* **24**: 118.

—— (1887) Additional Trichoptera from Glasslough, Ireland. *Entomologist's mon. Mag.* **24**: 136.

—— (1887) Another caddis-fly new to the British Isles. *Entomologist's mon. Mag.* **24**: 136.

—— (1892) *Limnophilus decepiens*, Kol., in Ireland. *Entomologist's mon. Mag.* **28**: 110.

—— (1892) Notes on Trichoptera and Neuroptera from Ireland. *Entomologist's mon. Mag.* **28**: 301.

—— (1909) (*Limnophilus fuscinervis* Zett.). *Entomologist's Rec. J. Var.* **21**: 240.

—— (1909) *Limnophilus fuscinervis*, Zett., a trichopteron new to the British Isles. *Entomologist's mon. Mag.* **45**: 233.

—— (1916) *Limnophilus fuscinervis* in Co. Monaghan. *Entomologist's mon. Mag.* **52**: 279. (& spp.)

Mosely, M. E. (1922) Two new British species of *Hydroptila*. *Transactions of the Entomological Society of London* **1922**: 178-180.

—— (1927) Galway trout. *Salmon and Trout Magazine* **No. 48**: 268-274 (Trichoptera, p. 274. The caddisfly data were reprinted in Mosely (1929) see below)

—— (1929) Recent additions to the Irish fauna and flora. Neuroptera. *Proceedings of the Royal Irish Academy* **39**B: 21.

—— (1930) Irish Trichoptera, Neuroptera, etc. *Entomologist* **63**: 30-34.

—— (1933) Trichoptera from Oxford. *Entomologist* **66**: 43.

—— (1939) *The British caddis flies (Trichoptera). A collector's handbook.* Routledge, London. i-xiii, 1-320.

Murphy, P. M. and Carter, C. E. (1984) A summer survey of the littoral macroinvertebrate fauna (excluding the Chironomidae) of Lough Neagh, N. Ireland. *Proceedings of the Royal Irish Academy* **84**B: 103-108.

Múrria, C., Zamora-Muñoz, C., Bonada, N., Ribera, C. and Prat, N. (2010) Genetic and morphological approaches to the problematic presence of three *Hydropsyche* species of the *pellucidula* group (Trichoptera: Hydropsychidae) in the westernmost Mediterranean basin. *Aquatic Insects* **32**: 85-98. (*H. pellucidula*)

Neu, P. J., Malicky, H., Graf, W. and Schmidt-Kloiber, A. (2018) *Distribution atlas of European Trichoptera*. *Die Tierwelt Deutschlands* **84**. ConchBooks, Harxheim.

Nolan, M. and O'Connor, J. P. (2020) A second adult site for the caddisfly *Trichostegia minor* (Trichoptera: Phryganeidae) in Ireland with the description of an unusual capture method for Trichoptera. *British Journal of Entomology and Natural History* **33**: 333-337.

O'Connor, J. P. (1977) Lough Derrygeeha, Co. Clare, a new locality for *Cyrnus insolutus* McLachlan (Trichoptera: Polycentropodidae). *Entomologist's Rec. J. Var.* **89**: 309-310.

O'Connor, J. P. (1978) *Hydroptila tigurina* Ris new to Ireland with notes on *Apatania wallengreni* McLachlan and *Limnephilus binotatus* Curtis (Insecta: Trichoptera). *Ir. Nat. J.* **19**: 191-192.

—— (1978) A progress report on studies of Irish Trichoptera. *Proceedings of the 2nd International Symposium on Trichoptera, 1977:* pp 303-308.

—— (1979) *Triaenodes reuteri* McLachlan new to Ireland with a second Irish record of *Apatania wallengreni* McLachlan (Insecta: Trichoptera). *Ir. Nat. J.* **19**: 403-404.

—— (1980) *Limnephilus pati* sp. n. (Trichoptera: Limnephilidae), a caddisfly new to Great Britain and Ireland. *Ir. Nat. J.* **20**: 129-133.

—— (1981) The July cover illustration. *Ir. Nat. J.* **20**: 302. (*Apatania auricula*)

—— (1982) *Ithytrichia clavata* (Trichoptera: Hydroptilidae), a caddisfly new to Ireland. *Ir. Nat. J.* **20**: 548-549.

—— (1987) A review of the Irish Trichoptera. Pp 73-77. In Bournaud, M. and Tachet, H. (eds) Proceedings of the 5th International Symposium on Trichoptera. Dr W. Junk Publishers, Dordrecht.

—— (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history.* The Lilliput Press, Dublin.

—— (2010) Additions and corrections to the Irish list of Trichoptera. *Ir. Nat. J.* **30** (2009): 127-129.

—— (2013) The caddisflies (Trichoptera) of Co. Kerry, Ireland. Part 1: records of species taken at light. *Bulletin of the Irish Biogeographical Society* **37**: 58-82.

—— (2014) An Irish adult of the caddisfly *Beraeodes minutus* (Linnaeus, 1761) (Trichoptera: Beraeidae). *Entomologist's mon. Mag.* **150**: 61-62.

—— (2015) *A catalogue and atlas of the caddisflies (Trichoptera) of Ireland. Occasional Publication of the Irish Biogeographical Society* **Number 11**. viii + 646pp. Published by the Irish Biogeograpical Society in association with the National Museum of Ireland. (bibliographic)

—— (2017) *Apatania muliebris* McLachlan, 1866 (Trichoptera: Apataniidae), a caddisfly new to Northern Ireland. *Entomologist's Rec. J. Var.* **129**: 186-187.

—— (2019) *Hydroptila vectis* Curtis, 1834, new to Ireland and the first Irish adult of *Tricholeiochiton fagesii* (Guinard, 1879) (Trichoptera: Hydroptilidae). *Entomologist's mon. Mag.* **155**: 163-167.

—— (2019) *Oxyethira mirabilis* Morton (Trichoptera: Hydroptilidae), a caddisfly new to Ireland. *British Journal of Entomology and Natural History* **32**: 231-234.

—— (2020) Caddisflies (Trichoptera) of Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/250>

—— (2020) *A National Grid Atlas of the Irish Caddisflies (Trichoptera)*. Occasional Electronic Publication **Number 1**. Irish Biogeographical Society, Dublin. 194pp. <http://www.irishbiogeographicalsociety.com/pdf/IBSNationalgridatlasIrishcaddisflies trichoptera.pdf>.

—— (2020) Some further distribution records of caddisflies (Trichoptera) from Ireland. *Bulletin of the Irish Biogeographical Society* **44**: 138-166.

O'Connor, J. P. and Barnard, P. C. (1981) *Limnephilus tauricus* Schmid (Trichoptera: Limnephilidae) new to Great Britain, with a key to the *L. hirsutus* (Pictet) group in the British Isles. *Entomologist's Gazette* **32**: 115-119.

O'Connor, J. P. and Bond, K. G. M. (1995) *Limnephilus pati* O'Connor rediscovered and *L. tauricus* Schmid (Trichoptera: Limnephilidae) new to Ireland. *Entomologist's Gazette* **46**: 207-208.

—— (2009) *Hydroptila sparsa* Curtis (Trichoptera: Hydroptilidae) new to Co. Tyrone. *Ir. Nat. J.* **29** (2008): 131.

—— (2014) *Hydroptila angulata* and *Oxyethira flavicornis* (Trichoptera: Hydroptilidae), caddisflies new to Northern Ireland. *British Journal of Entomology and Natural History* **27**: 24-25.

—— (2015) *Limnephilus coenosus* Curtis, 1834 (Trichoptera: Limnephilidae) new to Northern Ireland. *Entomologist's mon. Mag.* **151**: 54-55.

—— (2018) *Hydroptila simulans* Mosely, 1920 (Trich.: Hydroptilidae), a caddisfly new to Northern Ireland. *Entomologist's Rec. J. Var.* **130**: 193-194.

O'Connor, J. P., Bond, K. G. M. and O'Connor, M. A. (2013) Some records of caddisflies (Trichoptera) from Co. Fermanagh including *Halesus digitatus*, *Limnephilus decipiens* and *Ceraclea fulva* new to Northern Ireland. *Bulletin of the Irish Biogeographical Society* **37**: 165-171.

—— (2014) Notes on Irish caddisflies (Trichoptera) including three species new to Northern Ireland. *British Journal of Entomology and Natural History* **27**: 255-257.

—— (2015) Records of *Potamophylax cingulatus* (Stephens) and *P. latipennis* (Curtis) (Trichoptera: Limnephilidae) from Northern Ireland. *Ir. Nat. J.* **34**: 136-137.

O'Connor, J. P. and Bracken, J. J. (1978) Notes on *Hydropsyche instabilis* (Curtis) and *H. siltalai* Dohler (Insecta: Trichoptera) in Ireland. *Ir. Nat. J.* **19**: 282-283.

—— (1980) A comparative limnological study of two Irish lakes (Lough Sillan, Co. Cavan and Lough Dan, Co.Wicklow). *Irish Fisheries Investigations Series A* **No. 17** (1978).

O'Connor, J. P. and Bryant, A. (2018) The brackish water caddisfly *Ylodes reuteri* (McLachlan, 1880) (Trichoptera: Leptoceridae) discovered in County Waterford, Ireland. *Bulletin of the Irish Biogeographical Society* **42**: 3-8.

O'Connor, J. P. and Davy-Bowker, J. (2014) Records of Trichoptera (Insecta) from Northern Ireland. *Bulletin of the Irish Biogeographical Society* **38**: 3-60.

O'Connor, J. P. and Feeley, H. B. (2020) Miscellaneous Irish caddisfly (Trichoptera) records mainly from National River Monitoring work. *Bulletin of the Irish Biogeographical Society* **44**: 261-269.

O'Connor, J. P. and Good, J. A. (1984) *Tinodes dives* (Pictet): a caddisfly new to Ireland from Ben Bulben, Co. Sligo. *Entomologist's Rec. J. Var.* **96**: 108-109.

O'Connor, J. P., Good, J. A. and Bond, K. G. M. (1990) *Leptocerus tineiformis* Curtis: a caddisfly new to Ireland from Pollardstown Fen, Co. Kildare. *Entomologist's Rec. J. Var.* **102**: 115-116.

O'Connor, J. P., Good, J. A. and Wallace, I. D. (2019) A new Irish locality for the rare caddisfly *Limnephilus pati* O'Connor (Trichoptera: Limnephilidae). *Entomologist's Rec. J. Var.* **131**: 209-215.

O'Connor, J. P. and Hancock, E. G. (2014) Notes on caddisflies (Trichoptera) collected by J. J. F. X. King in Co. Down including two species new to Northern Ireland. *Entomologist's Rec. J. Var.* **126**: 110-113.

O'Connor, J. P. and McNaughton, C. (2017) The caddisfly *Trichostegia minor* (Curtis, 1834) (Trichoptera: Phryganeidae) confirmed as an Irish species. *Entomologist's Rec. J. Var.* **129**: 147-150.

—— (2017) The caddisfly *Limnephilus borealis* (Zetterstedt, 1840) (Trichoptera: Limnephilidae): an unexpected addition to the Irish fauna. *Entomologist's Rec. J. Var.* **129**: 306-310.

—— (2017) *Limnephilus hirsutus*, *Limnephilus ignavus* and *Ceraclea albimacula* (Trichoptera): three species new to Northern Ireland along with some other records from Lough na Trosk, County Antrim. *Bulletin of the Irish Biogeographical Society* **41**: 33-38.

—— (2017) Some new distributional records of caddisflies (Trichoptera) from Northern Ireland. *Bulletin of the Irish Biogeographical Society* **41**: 103-111.

—— (2018) A second Irish record of *Limnephilus borealis* (Zetterstedt, 1840) (Trichoptera: Limnephilidae) from Northern Ireland. *Entomologist's mon. Mag.* **154**: 125-128.

—— (2019) Records of caddisflies (Trichoptera) from County Antrim, Northern Ireland. *Bulletin of the Irish Biogeographical Society* **43**: 28-36.

O'Connor, J. P., McNaughton, C. and Langton, P. H. (2017) *Glossosoma conformis*, *Hydropsyche contubernalis* and *Agrypnia varia* (Trichoptera): three species of caddisfly new to Northern Ireland, with a checklist of recorded species. *Bulletin of the Irish Biogeographical Society* **41**: 39-50.

O'Connor, J. P. and Nelson, B. (2012) *An annotated checklist of the Irish Hemiptera and small orders.* The Irish Biogeographical Society, Dublin. vii + 152pp.

O'Connor, J. P. and Norton, M. A. (1977) Athlone Field Meeting: preliminary notes on the aquatic invertebrate fauna of Hare Island and environs. *Bulletin of the Irish Biogeographical Society* **1**: 20-25.

—— (1978) Further notes on the aquatic invertebrates of Hare Island and its environs, Lough Ree, Co. Westmeath. *Bulletin of the Irish Biogeographical Society* **2**: 37-39.

O'Connor, J. P. and O'Connor, M. (2013) *Hydroptila valesiaca* Schmid (Trich.: Hydroptilidae) new to Ireland with records of two other notable species. *Entomologist's Rec. J. Var.* **125**: 189-193.

—— (2016) A rare Irish caddisfly *Cyrnus insolutus* McLachlan, 1878 (Trichoptera: Polycentropodidae) discovered at Belle Lake, County Waterford. *Entomologist's Rec. J. Var.* **128**: 259-263.

O'Connor, J. P. and O'Connor, M. A. (1980) *Hydroptila occulta* (Eaton) (Trichoptera: Hydroptilidae), a caddisfly new to Ireland with notes on *Hydroptila martini* Marshall. *Entomologist's Rec. J. Var.* **92**: 167-168.

—— (1982) *Tinodes unicolor* (Pictet) and *Metalype fragilis* (Pictet) (Trichoptera: Psychomyiidae) discovered in the Burren, Co. Clare. *Entomologist's Gazette* **33**: 192-194.

—— (2014) Notes on *Oecetis notata* (Rambur, 1842) (Trichoptera: Leptoceridae) in Ireland. *Entomologist's mon. Mag.* **150**: 180-181.

O'Connor, J. P. and O'Connor, M. A. (2014) Further records of caddisflies (Trichoptera) from Co. Fermanagh including seven species new to Northern Ireland. *Bulletin of the Irish Biogeographical Society* **38**: 272-279.

—— (2015) Three species of caddisfly (Trichoptera) new to Northern Ireland, including *Apatania wallengreni* McLachlan, 1871. *Entomologist's mon. Mag.* **151**: 281-282.

—— (2015) Additional caddisfly (Trichoptera) records from County Fermanagh including *Hydroptila cornuta* and *Ceraclea senilis* new to Northern Ireland. *Bulletin of the Irish Biogeographical Society* **39**: 203-208.

—— (2016) Some new distributional records for Irish caddisflies (Trichoptera) including a species list for Lough Neagh. *Bulletin of the Irish Biogeographical Society* **40**: 164-183.

—— (2017) Further distributional and flight-period records for Irish caddisflies (Trichoptera). *Bulletin of the Irish Biogeographical Society* **41**: 51-89.

—— (2017) *Agraylea sexmaculata* Curtis and *Leptocerus tineiformis* Curtis: caddisflies (Trichoptera) new to Northern Ireland. *British Journal of Entomology and Natural History* **30**: 243-245.

—— (2018) Records of Irish caddisflies (Trichoptera) including a county list. *Bulletin of the Irish Biogeographical Society* **42**: 75-154.

—— (2019) *Hydroptila lotensis* Mosely, 1930, new to Ireland and a second Irish record of *Hydroptila vectis* Curtis, 1834, (Trichoptera: Hydroptilidae). *Entomologist's mon. Mag.* **155**: 229-234.

—— (2019) New caddisfly (Trichoptera) data from Ireland including records for *Hydroptila lotensis* Mosely, 1930 and *Hydroptila vectis* Curtis, 1834. *Bulletin of the Irish Biogeographical Society* **43**: 57-122.

—— (2020) Additional caddisfly (Trichoptera) records from Ireland including new records of *Oxyethira mirabilis* Morton, 1904. *Bulletin of the Irish Biogeographical Society* **44**: 19-94.

O'Connor, J. P., O'Connor, M. A. and Gammell, M. P. (2019) The caddisfly *Hydropsyche fulvipes* (Curtis, 1834) (Trichoptera: Hydropsychidae): finally confirmed as an Irish species. *Entomologist's Rec. J. Var.* **131**: 26-31.

O'Connor, J. P., O'Connor, M. A. and McNaughton, C. (2018) *Holocentropus dubius* (Rambur, 1842) new to Northern Ireland with other caddisfly (Trichoptera) records from the region. *Bulletin of the Irish Biogeographical Society* **42**: 22-33.

O'Connor, J. P. and O'Hanrahan, B. M. (1988) *Agraylea sexmaculata* new to Ireland with notes on *Tricholeiochiton fagesii* and *Phacopteryx brevipennis* (Trichoptera). *Ir. Nat. J.* **22**: 478-480.

O'Connor, J. P. and Walshe, A. (2018) *Limnephilus decipiens*: a caddisfly (Trichoptera: Limnephilidae) new to the south-east of Ireland. *Ir. Nat. J.* **36**: 49-50.

O'Connor, J. P. and Wise, E. J. (1980) The larva of *Tinodes maculicornis* (Trichoptera: Psychomyiidae), with notes on the species' distribution and habitat in Ireland. *Freshwater Biology* **10**: 367-370.

—— (2004) Observations on the Trichoptera of the Rivers Flesk and Laune, Killarney, Co. Kerry, Ireland. *Bulletin of the Irish Biogeographical Society* **28**: 133-142.

O'Connor, M. A. and Bracken, J. J. (1980) An investigation of the chemical and biological effects of pollution in the River Tolka. *Irish Fisheries Investigations Series A* **No. 20**: 3-21.

Porst, G., Brauns, M., Irvine, K., Solimini, A., Sandin, L., Pusch, M. and Miler, O. (2019) Effects of shoreline alteration and habitat heterogeneity on macroinvertebrate community composition across European lakes. *Ecological Indicators* **98**: 285-296.

Regan, E. and McCormack, S. (2009) Class Insecta. Pp 97-111. *In* Ferriss, S. E., Smith, K. G. and Inskipp, T. P. (eds) Irish biodiversity: a taxonomic inventory of fauna. *Irish Wildlife Manuals* **No. 38**: 1-179. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin.

Reynolds, J. D. (1985) Invertebrates of Irish midlands raised bogs: part II. Odonata, aquatic Hemiptera, Trichoptera. *Bulletin of the Irish Biogeographical Society* **8**: 98-102.

—— (1985) Karstic freshwater habitats of the Aran Islands, Co Galway, with preliminary notes on their fauna. *Ir. Nat. J.* **21**: 430-435.

—— (1986) Some invertebrates of Lough Roe, Co. Offaly: a rare and endangered bogland habitat. *Bulletin of the Irish Biogeographical Society* **9**: 41-45.

—— (2001) Invertebrate communities of turloughs (temporary lakes) in south-east Galway, Ireland. *Verh. Internat. Verein. Limnol.* **27** (2000): 1679-1684.

Reynolds, J. D., Cooke, D., Simon, N., Allott, N. and Brennan, M. (1994) Macroinvertebrate communities of poorly buffered afforested and non-afforested streams in western Ireland. *Verh. Internat. Verein. Limnol.* **25**: 1496-1501.

Reynolds, J. D., Duigan, C., Marnell, F. and O'Connor, A. (1998) Extreme and ephemeral water bodies in Ireland. Pp 67-99. *In* Giller, P. S. (ed.) *Studies in Irish Limnology.* The Marine Institute, Dublin.

Reynolds, J. D. and Hunter, C. (1985) Evaluation of the use of artificial substrates in sampling the invertebrate fauna of sewage fungus slimes in Irish rivers. *Verh. Internat. Verein. Limnol.* **22**: 2239-2243.

Reynolds, J. D. and O'Keeffe, C. (2005) Dietary patterns in stream - and lake dwelling populations of *Austropotamobius pallipes*. *Bulletin Français de la Pêche et de la Pisciculture* **376-377**: 715-730.

Riipinen, M. P., Fleituch, T., Hladyz, S., Woodward, G., Giller, P. and Dobson, M. (2010) Invertebrate community structure and ecosystem functioning in European conifer plantation streams. *Freshwater Biology* **55**: 346-359.

Ryder, L., de Eyto, E., Gormally, M., Sheehy Skeffington, M., Dillane, M. and Poole, R. (2011) Riparian zone creation in established coniferous forests in Irish upland peat catchments: physical, chemical and biological implications. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 41-60.

Sangpradub, N. and Giller, P. S. (1994) Gut morphology, feeding rate and gut clearance in five species of caddis larvae. *Hydrobiologia* **287**: 215-223.

Sangpradub, N., Giller, P. S. and O'Connor, J. P. (1999) Life history patterns of stream-dwelling caddis. *Archiv für Hydrobiologie* **146**: 471-493.

Sleeman, D. P. (2002) Insects and other invertebrates found in the guts of sea trout (*Salmo trutta* L.). *Ir. Nat. J.* **26** (2001): 381-382.

Solem, J. O. (1985) Norwegian *Apatania* Kolenati (Trichoptera: Limnephilidae): identification of larvae and aspects of their biology in a high-altitude zone. *Entomological Scandinavica* **16**: 161-174. (*A. auricula* Forsslund)

Speight, M. C. D. and Healy, B. (1977) Arachnida and insecta. Pp 147-156. *In* Jeffrey, D. W. *et al.* (eds) *North Bull Island Dublin Bay - A Modern Coastal Natural History.* The Royal Dublin Society, Dublin.

Sweeney, P. (2006) New records of three rare Irish caddis larvae (Trichoptera). *Ir. Nat. J.* **28**: 300-301.

Tempelman, D., Verdonschot, R. C. M. and Neu, P. J. (2013) *Limnephilus pati* O'Connor, 1980 (Trichoptera: Limnephilidae) new for Poland. *Lauterbornia* **76**: 139-142.

Thompson, E., Cotton, D. C. F. and Ryan, S. (2002) Lough Gill Environmental Management Project. *Verh. Internat. Verein. Limnol.* **27** (2001): 3650-3653.

Toner, P. F. and O'Connell, C. (1971) Water quality investigations in the River Blackwater and River Martin, Co. Cork 1966-1969. *Irish Fisheries Investigations Series A* **No. 8**.

Twomey, H. and Giller, P. S. (1991) The effects of catastrophic flooding on the benthos and fish of a tributary of the River Araglin, Co. Cork. Pp 59-81. *In* Steer, M. W. (ed.) *Irish rivers: biology and management.* Royal Irish Academy, Dublin.

Viney, M. (2016) Another Life: Life along the stream – a love story. Caddisflies could take a prize for their variation of species. *The Irish Times* 12 March 2016. <https://www.irishtimes.com/news/environment/another-life-life-along-the-stream-a-love- story-1.2569228>

Wallace, B. and Wallace, I. D. (1985) A key to larvae of the genera *Micropterna* and *Stenophylax* (Trichoptera: Limnephilidae) in Britain and Ireland. *Entomologist's Gazette* **36**: 127-133.

Wallace, I. (2009) Winderemere's special caddisfly *Setodes argentipunctellus* - the silver-spotted longhorn. *FBA News* **47**: 2-3. (mention of Irish record)

Wallace, I. D. (1977) A key to larvae and pupae of *Sericostoma personatum* (Spence) and *Notidobia ciliaris* (Linne) (Sericostomatidae: Trichoptera) in Britain. *Freshwater Biology* **7**: 93-98.

—— (1980) The identification of British limnephilid larvae (Trichoptera: Limnephilidae) which have single-filament gills. *Freshwater Biology* **10**: 171-189.

—— (1981) A key to larvae of the family Leptoceridae (Trichoptera) in Great Britain and Ireland. *Freshwater Biology* **11**: 273-297.

Wallace, I. D. and O'Connor, J. P. (2020) Resurgence of the caddis *Oecetis notata* (Rambur, 1842) (Trich: Leptoceridae) in Britain and Ireland. *Entomologist's Rec. J. Var.* **132**: 14-15.

Wallace, I. D., Wallace, B. and O'Connor, J. P. (1985) The larva of *Limnephilus fuscinervis* (Trichoptera: Limnephilidae) with notes on the species' distribution and habitat in Ireland. *Ir. Nat. J.* **21**: 397-400.

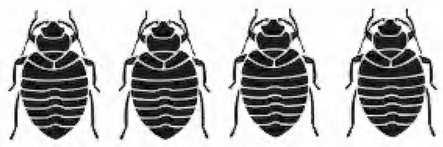
Wallace, I. D., Wallace, B., O'Connor, J. P. and O'Connor, M. A. (1983) *Phacopteryx brevipennis* new to Ireland with notes on *Oxyethira simplex* and *Beraeodes minutus* (Insecta: Trichoptera). *Ir. Nat. J.* **21**: 168-169.

Wallace, I. D., Wallace, B. and Philipson, G. N. (1990) A key to the case-bearing caddis larvae of Britain and Ireland. *Scientific Publications of the Freshwater Biological Association* **No. 51**: 1-237.

—— (2003) Keys to the case-bearing caddis larvae of Britain and Ireland. *Scientific Publications of the Freshwater Biological Association* **No. 61**: 1-259.

Woodward, G., Bonada, N., Feeley, H. B. and Giller, P. S. (2015) Resilience of a stream community to extreme climatic events and long-term recovery from a catastrophic flood. *Freshwater Biology* **60**: 2497-2510.

Wright, J. F., Gunn, R. J. M., Blackburn, J. H., Grieve, N. J., Winder, J. M. and Davy-Bowker, J. (2000) Macroinvertebrate frequency data for the RIVPACS 111 sites in Northern Ireland and some comparisons with equivalent data for Great Britain. *Aquatic Conservation: Marine & Freshwater Ecosystems* **10**: 371-389.



CHAPTER 20. *PESTS

Anon. (1895) (Injurious insects). *Ir. Nat.* **4**: 346. (Col., Dipt., Hym., Lep., Thysan.)

—— (1901-02) (A flax-eating flea-beetle). *Journal of the Department of Agriculture* **2**: 138-140.

—— (1905-06) Some common parasites of the sheep. *Journal of the Department of Agriculture* **6**: 295-299.

—— (1909-10) Insecticides. *Journal of the Department of Agriculture* **10**: 80-81.

—— (1951) (Report of) Agricultural Entomology Division for 1950. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* (1951): 117-119.

—— (1951-52) Wheat midge. *Journal of the Department of Agriculture* **48**: 168-180.

—— (1952) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* (1952): 92-94.

—— (1952-53) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* (1952-3): 167-171.

—— (1954) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* (1954): 51-55.

—— (1955) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **5**: 83 *et seq.*

—— (1956) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **6**: 119-123.

—— (1957) (Report of) Agricultural 'Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **7**: 157-165.

—— (1958) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **8**: 103-114.

—— (1959) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **9**: 155-168.

—— (1960) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **10**: 185-202.

Anon. (1961) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **11**: 139-147.

—— (1962) (Report of) Agricultural Entomology Division. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **12**: 149-165.

—— (1963) Keep watch for the Colorado Beetle. *Irish Farmer* **1**: 109.

—— (1964) Common skin parasites of sheep. *Irish Farmer* **2**: 99-100.

—— (1964) *Agricultural Entomology Division. Annual Report. Northern Ireland* **1964**: 5-16.

—— (1965) *Forest research review: 1957-1964.* Department of Lands, Forestry Division. Stationery Office, Dublin. 158pp

—— (1965) War against the *Warble Fly*. *Irish Farmer* **3**: 64.

—— (1976) Report from regional veterinary laboratories of Dept. of Ag. & Fish. *Irish Veterinary Journal* **30**: 180. (Diptera)

Al-Saffar, Z. Y., Grainger, J. N. R. and Aldrich, J. (1995) Effects of constant and fluctuating temperature on development from egg to adult of *Drosophila melanogaster* (Meigen). *Biology and Environment: Proceedings of the Royal Irish Academy* **95**B: 119-122.

Alexander, J. B., Newton, J. and Crowe, G. A. (1991) Distribution of Oriental and German cockroaches, *Blatta orientalis* and *Blattella germanica* (Dictyoptera), in the United Kingdom. *Medical and Veterinary Entomology* **5**: 395-402. (Irish distributions)

"An Liaig" (1943) Animal pests. *Agricultural Ireland* **2**: 132-134.

—— (1944) Animal pests. *Agricultural Ireland* **2**: 152-154.

—— (1944) Animal pests: insect pests. *Agricultural Ireland* **2**: 179-181.

Anderson, R. (1984) Some recent Irish records of *Euophryum confine* Broun (Col., Curculionidae). *Entomologist's mon. Mag.* **120**: 216.

Anderson, R. and Allen, D. (2019) The Maize Weevil (*Sitophilus zeamais* Motschulsky) (Coleoptera: Curculionidae) new to Ireland, outdoors in Co. Fermanagh. *Ir. Nat. J.* **36**: 147-148.

Anderson, R. and Power, B. (2013) The Harlequin Ladybird (*Harmonia axyridis* (Pallas)) (Coleoptera: Coccinellidae) established out of doors in Co. Carlow. *Ir. Nat. J.* **33**: 67.

Ashe, P., O'Connor, J. P. and Casey, R. J. (1991) Irish mosquitoes (Diptera: Culicidae): a checklist of the species and their known distribution. *Proceedings of the Royal Irish Academy* **91**B: 21-36.

Baars, J.-R. (2011) Classical biological control for the management of alien invasive species in Ireland. *Biology and Environment: Proceedings of the Royal Irish Academy* **111**B: 1-10. (Col., Coll., Dipt., Hem., Hym., Lep.)

Baars, J.-R., Coetzee, J. A., Martin, G., Hill, M. P. and Caffrey, J. M. (2010) Natural enemies from South Africa for biological control of *Lagarosiphon major* (Ridl.) Moss ex Wager (Hydrocharitaceae) in Europe. *Hydrobiologia* **656**: 149-158.

Baker, J. J. (1958) A field trial of the systemic insecticide DOW.E7 57 against warble infestation in cattle. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **8**: 73-81.

Baker, K. P. (1977) The hypersensitive response of the skin to fleas with observations on treatment and control. *Irish Veterinary Journal* **31**: 141-147.

Baker, K. P. and Oormazdi, H. (1978) The probable cause of the multiple linear scratch defect of cattle hides in Ireland. *Journal of the Society of Leather Technologists & Chemists* **62**: 103-107.

Bannon, E. and Purvis, G. (1993) Pests and diseases of agricultural crops. Pp 17-30. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Barnes, H. F. (1927) Four British aphid-eating gall-midges. *Entomologist* **60**: 174-180.

—— (1928) British gall midges. II. *Lestodiplosis* Kieffer. *Entomologist's mon. Mag.* **64**: 68-75. (*L. miki* Barnes - Dublin; *L. acanthoidis* Barnes - Armagh/Tyrone)

—— (1940) The gall midges attacking the seed-heads of cocksfoot *Dactylis glomerata* L. *Bulletin of Entomological Research* **3**1: 111-120.

—— (1946) *Gall midges of economic importance. I. Gall midges of root and vegetable crops*. Lockwood, London.

—— (1946) *Gall midges of economic importance. II. Gall midges of fodder crops*. Lockwood, London.

—— (1948) *Gall midges of economic importance. III. Gall midges of fruit.* Lockwood, London.

—— (1948) *Gall midges of economic importance. IV Gall midges of ornamental shrubs and trees*. Lockwood, London.

—— (1953) Investigations into the gall midges of Chrysanthemum flowers, 1951-53. *Entomologist* **86**: 292-297.

Baxter, J. T. (1958) A field trial of the systemic insecticide *DOW E7-57* against warble infestation in cattle. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **8**: 73-81.

Beirne, B. P. (1942) Notes on some lepidopterous pests on fruit trees, and their parasites, in Ireland during 1941. *Economic Proceedings of the Royal Dublin Society* **3**: 107-118, 9 figs.

—— (1942) The biology and natural control of the larch shoot moth, *Argyresthia laevigatella*, H-S. *Economic Proceedings of the Royal Dublin Society* **3**: 130-149, 27 figs.

—— (1943) *Argyresthia conjugella*, Zell. and other lepidopterous pests in Ireland during 1942. *Economic Proceedings of the Royal Dublin Society* **3**: 163-171, 3 figs.

—— (1943) The biology and control of the Small Ermine Moths (*Hyponomeuta* spp.) in Ireland. *Economic Proceedings of the Royal Dublin Society* **3**: 191-220.

—— (1952) Insects found in foodstuffs and stored products in Ireland. *Entomologist's Gazette* **3**: 81-84.

Bell, A. C. (1982) Bulb and potato aphid: a serious pest of sprouting seed potatoes. *Agriculture in Northern Ireland* **57**: 176-178.

Blackshaw, R. P. (1983) The annual leatherjacket survey in Northern Ireland 1965-82, and some factors affecting populations. *Plant Pathology* **32**: 345-349.

—— (1983) Tests of insecticides against vine weevil larvae. *Tests of Agrochemicals and Cultivars* **4** (Supplement to Annals of Applied Biology **102**): 36-37.

—— (1984) The impacts of low numbers of leatherjacket on grass yield. *Grass and Forage Science* **39**: 339-343.

Blackshaw, R. P. (1984) Frequency of spring barley damage by leatherjackets in Northern Ireland. *Proceedings of the British Crop Protection Conference* pp 15-18.

—— (1984) An evaluation of three insecticides as compost treatment for the control of vine weevil larvae. *Journal of Horticultural Science* **59**: 559-562.

—— (1984) Studies on the chemical control of vine weevil larvae. *Proceedings of the British Crop Protection Conference* pp 1093-1098.

—— (1985) A preliminary comparison of some management options for reducing grass losses caused by leatherjackets in Northern Ireland. *Annals of Applied Biology* **107**: 279-285.

—— (1985) Tests of controlled-release insecticides for the control of vine weevil larvae. *Tests of Agrochemicals and Cultivars* **6** (Supplement to *Annals of Applied Biology* **106**): 16-17.

—— (1986) An evaluation of seven controlled-release insecticides for the control of vine weevil larvae. *Journal of Horticultural Research* **61**: 109-111.

—— (1986) Leatherjackets: a major grassland pest. *Agriculture in Northern Ireland* **1**: 20.

—— (1987) Studies on the chemical control of vine weevil larvae in hardy-ornamental nursery stock. *Journal of Horticultural Science* **62**: 63-66.

—— (1987) Studies on the estimation of sampling error for leatherjackets (*Tipula* spp.) in grassland. *Grass and Forage Science* **42**: 347-351.

—— (1987) Status of leatherjackets as grassland pests in Northern Ireland. *Proceedings of Crop Protection in Northern Britain* p. 422.

—— (1988) Effects of cultivations and previous cropping on leatherjacket populations in spring barley. *Research and Development in Agriculture* **5**: 35-37.

—— (1988) An investigation into the efficacy of chlorpyrifos against bibionid and leatherjacket larvae in grassland. *Tests of Agrochemicals and Cultivars* **9** (Supplement to *Annals of Applied Biology* **112**): 10-11.

—— (1990) Observations on the distribution of leatherjackets in Northern Ireland. *Annals of Applied Biology* **116**: 21-26.

—— (1990) Applications of a sequential sampling technique to DIY assessment of leatherjacket (Diptera: Tipulidae) populations in grassland. *Grass and Forage Science* **45**: 257-262.

—— (1990) Forecasting leatherjacket populations in Northern Ireland. *Proceedings of Crop Protection in Northern Britain,* 1990. Pp 117-122.

—— (1991) Leatherjackets in grassland. *Proceedings of the British Grassland Society Conference on Strategies for Weed, Disease and Pest Control in Grassland* 6.1-6.12.

—— (1992) Black vine weevil (*Otiorhynchus sulcatus* (F.)) oviposition on polyanthus plants outdoors in Northern Ireland. *Journal of Horticultural Science* **67**: 641-646.

Blackshaw, R. P. and D'Arcy-Burt, S. (1992) The growth of *Bibio johannis* (L.) and *Dilophus febrilis* (L.) (Diptera: Bibionidae) larvae in the field. *Annals of Applied Biology* **120**: 329-337.

Blackshaw, R. P. and Mercer, P. C. (1984) Cereal diseases and pests in 1983/84. *Journal of Horticultural Science* **59**: 265-268.

Blackshaw, R. P. and Newbold, J. W. (1987) Interactions between fertilizer use and leatherjacket control in grassland. *Grass and Forage Science* **42**: 343-346.

Blackshaw, R. P. and Perry, J. N. (1994) Predicting leatherjacket population frequencies in Northern Ireland. *Annals of Applied Biology* **124**: 213-219.

Bristow, J. and Paull, A. W. (1875) Pear-tree Slug. *Entomologist* **8**: 284.

Bullock, J. A. (1987) Chrysomelids (Col.) on *Salix* spp. in Eire, 1985. *Entomologist's mon. Mag.* **123**: 112.

Bullock, J. A. and Bullock, J. M. (1986) Chrysomelidae (Col.) feeding on willows. *Entomologist's mon. Mag.* **122**: 164.

Caron, V., Norgate, M., Ede, F. J., Nyman, T. and Sunnucks, P. (2013) Novel microsatellite DNA markers indicate strict parthenogenesis and few genotypes in the invasive willow sawfly *Nematus oligospilus*. *Bulletin of Entomological Research* **103**: 74-88.

Carpenter, G. H. (1891) Report on Economic Entomology for the year 1890. Appendix H to report of the Council. *Proceedings of the Royal Dublin Society* **127**: 107-111.

—— (1894) Report on Economic Entomology for the year 1892. Appendix G to report of the Council. *Proceedings of the Royal Dublin Society* **129**: 213-216.

—— (1895) Report on Economic Entomology for the year 1894. Appendix H to report of the Council. *Proceedings of the Royal Dublin Society* **131**: 93-107.

—— (1896) Report on Economic Entomology for the year 1895. Appendix H to report of the Council. *Proceedings of the Royal Dublin Society* **132**: 111-123.

—— (1897) Report on Economic Entomology for the year 1896. Appendix H to report of the Council. *Proceedings of the Royal Dublin Society* **133**: 81-95.

—— (1898) Report on Economic Entomology for year 1897. Appendix H to report of the Council. *Proceedings of the Royal Dublin Society* **134**: 120-133.

—— (1900) Report on Economic Entomology for 1899. Appendix H to report of R.D.S. Council. *Proceedings of the Royal Dublin Society* **136**: 103-115.

—— (1900-01) The Turnip Fly. *J.D. Ag. & T.I. for Ire.* **1**: 221-223.

—— (1900-01) Wireworms. *J.D. Ag. & T.I. for Ire.* **1**: 224-227.

—— (1900-01) The Warble Fly. *J.D. Ag. & T.I. for Ire.* **1**: 89-92.

—— (1901) Report on Economic Entomology for 1900. Appendix H to report of the Council of the R.D.S. (1900): 94-108.

—— (1901-02) The Diamond-back Moth. *J.D. Ag. & T.I. for Ire.* **2**: 275-279.

—— (1902) Injurious insects observed in Ireland during the year 1901. *Economic Proceedings of the Royal Dublin Society* **l**: 132-159, plate I.

—— (1903) Injurious insects and other animals observed in Ireland during the year 1902. *Economic Proceedings of the Royal Dublin Society* **1**: 195-218, plates VII and VIII.

—— (1904) Injurious insects and other animals observed in Ireland during the year 1903. *Economic Proceedings of the Royal Dublin Society* **1**: 249-265, plates XXI and XXII.

—— (1905) Injurious insects and other animals observed in Ireland during the year 1904. *Economic Proceedings of the Royal Dublin Society* **l**: 281-304, plates XXIII-XXVI.

—— (1906) Injurious insects and other animals observed in Ireland during the year 1905. *Economic Proceedings of the Royal Dublin Society* **l**: 321-344, plates XXVII-XXXI.

—— (1906-07) Some injurious orchard insects. *Journal of the Department of Agriculture* **7**: 243-249.

—— (1907) Injurious insects and other animals observed in Ireland during the year 1906. *Economic Proceedings of the Royal Dublin Society* **l**: 421-452, plates XXXIX-XLIV.

Carpenter, G. H. (1908) Injurious insects and other animals observed in Ireland during the year 1907. *Economic Proceedings of the Royal Dublin Society* **1**: 559-588, plates XLIX-LIV.

—— (1909) Injurious insects and other animals observed in Ireland during the year 1908. *Economic Proceedings of the Royal Dublin Society* **1**: 589-611, plates LV-LIX.

—— (1910) Injurious insects and other animals observed in Ireland during the year 1909. *Economic Proceedings of the Royal Dublin Society* **2**: 8-30, plate II.

—— (1911) Injurious insects and other animals observed in Ireland during the year 1910. *Economic Proceedings of the Royal Dublin Society* **2**: 31-51.

—— (1912) Injurious insects and other animals observed in Ireland during the year 1911. *Economic Proceedings of the Royal Dublin Society* **2**: 53-78, plates VIII and IX.

—— (1913) Injurious insects and other animals observed in Ireland during the year 1912. *Economic Proceedings of the Royal Dublin Society* **2**: 79-104, plates X and XI.

—— (1914) Injurious insects and other animals observed in Ireland during the year 1913. *Economic Proceedings of the Royal Dublin Society* **2**: 142-160, plate XIII.

—— (1916) Injurious insects and other animals observed in Ireland during the years 1914 and 1915. *Economic Proceedings of the Royal Dublin Society* **2**: 221-136, plates XIV-XVII.

—— (1917) *Psyllodes affinis* as a potato-pest. *Entomologist's mon. Mag.* **53**: 129.

—— (1920) Injurious insects and other animals observed in Ireland during the years 1916, 1917 and 1918. *Economic Proceedings of the Royal Dublin Society* **2**: 259-272, plates XIX-XXIV.

—— (1922) The Colorado Beetle. *Journal of the Department of Agriculture* **22**: 372-374.

Carpenter, G. H. and Corson, T. H. (1909-10) The Warble flies: third report on experiments as to life-history and treatment. *Journal of the Department of Agriculture* **10**: 642-650.

Carpenter, G. H. and Hewitt, J. O. (1919-20) The Warble flies: fifth report on experiments as to life-history and treatment: the clearance of an island. *Journal of the Department of Agriculture* **20**: 452-459.

Carpenter, G. H. and Hewitt, T. R. (1914) Some new observations on the life-history of warble flies: the entrance of the maggot into the host's body. *Ir. Nat.* **23**: 214-221.

Carpenter, G. H., Hewitt, T. R. and Reddin, T. K. (1914) The Warble flies: report of experiments and observations as to life-history and treatment. *Journal of the Department of Agriculture* **15**: 105-132.

Carpenter, G. H., Phibbs, G. and Slattery, T. (1922) The Warble flies: 6th report on experiments as to life history and treatment. *Journal of the Department of Agriculture* **22**: 14-25.

Carpenter, G. H. and Prendergast, W. F. (1908-09) The Warble Flies:- further experiments as to life history and treatment. *Journal of the Department of Agriculture* **9**: 465-476.

Carpenter, G. H. and Steen, J. W. (1907-08) The Warble-fly: experiments on cattle as to its treatment and life-history. *Journal of the Department of Agriculture* **8**: 227-246.

Carroll, J. (1943) Insect pests affecting food production in garden and allotment. *Journal of the Department of Agriculture* **40**: 216-220.

—— (1944) Insect pests affecting food production. *Journal of the Department of Agriculture* **41**: 43-46.

Carroll, J. (1945) Present day knowledge concerning some insect pests of farm crops. *Journal of the Department of Agriculture* **42**: 81-93.

—— (1952) Eelworm and insect pests III: sap-sucking insects. *Agricultural Ireland* **9**: 231-233.

—— (1952) Eelworm and insect pests IV Beetles and beetle larvae. *Agricultural Ireland* **9**: 255-256.

—— (1952) Eelworms and insect pests. V Beetles and beetle larvae (continued). *Agricultural Ireland* **9**: 268-269.

—— (1953) Eelworm and insect pests. VI Caterpillars (part 1). *Agricultural Ireland* **10**: 10-11.

—— (1953) Eelworms and insect pests. VI Caterpillars (part 2). *Agricultural Ireland* **10**: 30-31.

—— (1953) Eelworm and insect pests VII Leatherjacket grubs, Fruitfly, Wheatbulb Fly and Gout fly. *Agricultural Ireland* **10**: 65-67.

—— (1953) Eelworms and insect pests. VIII Midges. *Agricultural Ireland* **10**: 91-94.

—— (1953) Eelworm and insect pests IX Leaf Maggot and Root Maggot flies. *Agricultural Ireland* **10**: 121-125.

—— (1953) Eelworms and insect pests X Others. *Agricultural Ireland* **10**: 136-137.

—— (1953) Eelworm and insect pests XI Role of beneficial insects. *Agricultural Ireland* **10**: 160-161.

—— (1953) Insects and allied parasites of farm stock I Lice, Sheep Ked and Sheep Maggot flies. *Agricultural Ireland* **10**: 271-273.

—— (1953) Insect and allied parasites of farm stock. II Warble fly, Bot fly, and Clegs. *Agricultural Ireland* **10**: 280-283.

—— (1955-56) Eelworm and insect pest problems. *Journal of the Department of Agriculture* **52**: 44-55.

Carroll, J. and McMahon, E. (1932) Winter spraying of orchards with particular reference to the control of Red Mite and Apple Capsid Bug. *Journal of the Department of Agriculture* **31**: 190-198.

Chamberlain, R., Skillman, E. E. and Stewart, J. H. (1937) The control of the Carrot Fly (*Psila rosae*) in Northern Ireland. *Journal of the Ministry of Agriculture for Northern Ireland* **5**: 39-51.

Chamberlain, R. and Willis, R. J. (1952-53) Observations on the use of Benzene Hexachloride for the control of certain pests of apple in Northern Ireland. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **1952-53**: 69-81.

Chamberlain, R. *et al*. (1965) *Agricultural Entomology Division. Annual Report. Northern Ireland* **1965**: 15-27.

Copeland, R. B., Dowley, L. J. and Moore, J. F. (1993) The vulnerability of the Irish potato industry to harmful organisms. Pp 95-106. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin.

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6. (Col., Derm., Hem.)

Cuthbertson, A. G. S. and Murchie, A. K. (2005) Environmental monitoring of *Archips podana* (fruit tree tortrix moth) in Bramley apple orchards in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 101-104.

—— (2006) Environmental monitoring of economically important invertebrate pests in Bramley apple orchards in Northern Ireland. *International Journal of Environmental Science and Technology* **3**(1) DOI: 10.1007/BF03325901
(Hem.: *Rhopalosiphum insertum*; Lep.: *Archips podana*)

—— (2007) The life history of *Rhopalosiphum insertum* (apple-grass aphid) in Bramley`s Seedling Apple Orchards. *Journal of Entomology* **4**: 160-162.

—— (2013) Techniques for environmental monitoring of predatory fauna on branches of Bramley apple trees in Northern Ireland. *International Journal of Environmental Science and Technology* **2**: 1-6.

D'Arcy-Burt, S. and Blackshaw, R. P. (1987) Effects of trap design on catches of grassland Bibionidae (Diptera: Nematocera). *Bulletin of Entomological Research* **77**: 309-315.

—— (1991) Bibionids (Diptera: Bibionidae) in agricultural land: a review of damage, benefits, natural enemies and control. *Annals of Applied Biology* **118**: 695-708.

Daly, P. J. (1979) An outbreak of vulvitis in ewes: a possible association with *Lyperosia irritans*. *Irish Veterinary Journal* **33**: 187-190. (*Haematobia*)

Day, K. R. (2002) The green spruce aphid - a pest of spruce in Ireland. *COFORD Connects - Silviculture and Forest Management* **No. 4**. COFORD, Dublin.

de Brit, B. and McAree, D. (1977) Pests and diseases of Sitka spruce. *Irish Forestry* **34**: 22-30.

Dietzsch, A. C., Stanley, D. A. and Stout, J. C. (2011) Relative abundance of an invasive alien plant affects native pollination processes. *Oecologia* **167**: 469-479. (Dipt., Hym., Lep.)

Downes, M. H. (1958) Controlling orchard pests. *Agricultural Ireland* **15**: 263-264.

—— (1958) Controlling orchard pests. *Agricultural Ireland* **15**: 287-288.

Dumont, P., Gale, B., Chester, T. S. and Larsen, D. L. (2014) Curative and preventive efficacy of orally administered afoxolaner against *Ctenocephalides canis* infestation in dogs. *Veterinary Parasitology* **201**: 212-215.

Dunne, R. (1971) *Myzus persicae* (Sulz.) and other aphids occuring on sugar beet in Ireland and their importance as vectors of Virus Yellows. *Scientific Proceedings of the Royal Dublin Society Ser. B* **3**: 73-80.

—— (1977) Progress in the integrated control of Whitefly. *Horticulture Industry* **May 1977**: 374.

Dunne, R. and Donovan, M. (1977) Biological control of Whitefly and Red Spider Mite. *Proceedings of a Seminar on Biological Control, Royal Irish Academy, Dublin, 1977*: 109-120.

—— (1978) Aphid control in tomatoes in a hydroponic system. *Acta Horticulturae* **82**: 137-139.

Dunne, R., Donovan, M. and Coffey, J. (1979) Control of cabbage root fly (*Delia brassicae*) by incorporation of insecticides in peat blocks. *Proceedings of the British Crop Protection Conference. Pests and Diseases* **10**: 239-244.

Dunne, R. and O'Connor, J. P. (1989) Some insects (Thysanoptera: Diptera) of economic importance, new to Ireland. *Ir. Nat. J.* **23**: 63-65.

—— (1997) *Echinothrips americanus* (Thysanoptera: Thripidae) new to Ireland. *Ir. Nat. J.* **25**: 412-413.

Edwards, A. R. (1965) The leaf-curling Plum Aphid *Brachycaudus helichrysi* (Kltb) - a new vector of the Tobacco Necrosis Virus of potato. *Records of Agricultural Research of the Ministry of Agriculture, Northern Ireland* **13**: 75-79.

—— (1967) Watch out for leatherjackets. *Agriculture in Northern Ireland* **41**: 358.

—— (1978) Pest losses in stored grain can be prevented. *Agriculture in Northern Ireland* **53**: 104-106.

—— (1978) A note on the susceptibility of stored barley to infestation by *Sitophilus granarius* (L.). *Records of Agricultural Research of the Department of Agriculture, Northern Ireland* **26**: 99-100.

Egan, P. A., Stevenson, P. C., Tiedeken, E. J., Wright, G. A., Boylan, F. and Stout, J. C. (2016) Plant toxin levels in nectar vary spatially across native and introduced populations. *Journal of Ecology* **104**: 1106-1115. (Col., Hym.)

Everard, A., Griffin, C. T. and Dillon, A. B. (2009) Competition and intraguild predation between the braconid parasitoid *Bracon hylobii* and the entomopathogenic nematode *Heterorhabditis downesi*, natural enemies of the large pine weevil, *Hylobius abietis*. *Bulletin of Entomological Research* **99**: 151-161. (Col., Hym.)

Fadl, A., Purvis, G. and Towey, K. (1996) The effect of time of soil cultivation on the incidence of *Pterostichus melanarius* (Illig.) (Coleoptera: Carabidae) in arable land in Ireland. 3rd international symposium of Carabidology, Kaunlainen. *Annales Zoologici Fennici* **33**: 207-214.

Feeley, H. B. and Kelly-Quinn, M. (2014) Re-examining the effects of episodic acidity on macroinvertebrates in small conifer-forested streams in Ireland and empirical evidence for biological recovery. *Biology and Environment: Proceedings of the Royal Irish Academy* **114**B: 205-218. (Col., Dipt., Eph., Hem., Plec., Trich.)

Feeney, A. (1966) Some notes on the occurrence and biology of the Pigmy Mangel Beetle *A. linearis* Stephens. *Proceedings of the Irish Crop Protection Conference (1966)*: 94-98. An Foras Taluntais.

Feeney, A. M. (1971) The occurrence and control of Pigmy Mangel Beetle *Atomaria linearis* (Steph.) in Ireland. *Scientific Proceedings of the Royal Dublin Society Ser. B* **3**: 81-86.

Finch, K. and Finch, D. (2020) Saxon Wasp (*Dolichovespula saxonica* (Fabricius)) (Hymenoptera, Vespidae), a social wasp species new to Ireland. *Ir. Nat. J.* **37**: 56-58.

Flynn, J. A. (1952) Dirty milk bottles with special reference to infestation by the Phorid Fly *Paraspiniphora bergenstammi* (Mik). *Irish Veterinary Journal* **6**: 405-407.

Forbes, A. C. (1910) The economic importance of Scolytidae in Irish Forestry. *Ir. Nat.* **19**: 89-91, 1 pl.

Fox-Wilson, G. (1939) Insect pests of rhododendrons: their distribution in Britain. *Proceedings of the Royal Entomological Society of London A* **14**: 1-5.

Good, J. A. and Ashe, P. (1990) Records of four species of false powder-post beetle (Coleoptera: Bostrichidae: *Dinoderus*) imported into Ireland. *Ir. Nat. J.* **23**: 326-327.

Good, J. A. and Wistow, S. (1997) Recolonisation by Staphylinidae (Coleoptera) of restored meadows on rehabilitated cement kiln mounds near Drogheda, Co. Louth, Ireland. *Bulletin of the Irish Biogeographical Society* **20**: 127-135.

Goodhue, D. (1966) Control of forest insects. I - General problems. *Irish Forestry* **23**: 42-47.

Graham, O. H. and Hourrigan, J. L. (1977) Eradication programs for the arthropod parasites of livestock. *Journal of Medical Entomology* **13**: 629-658.

Greenslade, A. F. C. (2016) A new species of Eucalyptus psyllid *Ctenarytaina spatula* Taylor, 1997 (Hemiptera: Aphalaridae: Spondyliaspidinae) recorded from Great Britain. *Entomologist's Rec. J. Var.* **128**: 265-267.

—— (2016) A new species of Eucalyptus psyllid *Ctenarytaina spatula* Taylor, 1997 (Hemiptera: Aphalaridae: Spondyliaspidinae) recorded from Great Britain. *Entomologist's Rec. J. Var.* **128**: 265-267.

Grennan, E. and Mulqueen, J. (1962) Performance of arable crops under varying manurial treatments on blanket peat. *Irish Journal of Agricultural Research* **1**: 251-266.

Grennan, E. J. (1966) Pasture damage by leatherjacket grubs. *Irish Journal of Agricultural Research* **5**: 145-146.

Gwiazdowski, R. A., Van Driesche, R. G., Desnoyers, A., Lyon, S., Wu, S.-A., Kamata, N. and Normark, B. B. (2006) Possible geographic origin of beech scale, *Cryptococcus fagisuga* (Hemiptera: Eriococcidae), an invasive pest in North America. *Biological Control* **39**: 9-18.

Halldórsson, G., Docherty, M., Oddsdóttir, E. S. and Day, K. R. (2001) The performance of different populations of the green spruce aphid (*Elatobium abietinum* Walker) at different temperatures. *Icelandic Agricultural Sciences* **14**: 75-84.

Halldórsson, G., Sigurdsson, V., Thórsson, Æ. T., Oddsdóttir, E. S., Sigurgeirsson, A. and Anamthawat-Jónsson, K. (2004) Genetic diversity of the green spruce aphid (*Elatobium abietinum* Walker) in north-west Europe. *Agricultural and Forest Entomology* **6**: 31-37.

Hatch, C. (1957) Effect of fleece contaminants on activity of nine blow-fly larvicides. *Irish Veterinary Journal* **11**: 170-188.

—— (1958) The control of Warble-Fly (*Hypoderma* spp) in cattle in Ireland by oral administration of "Trolene" (DOW ET 57). *Irish Veterinary Journal* **12**: 150-156.

—— (1959) The control of arthropods of veterinary significance. *Irish Veterinary Journal* **13**: 10-11.

—— (1959) Further trials with "Trolene" against Warble-Fly larvae. *Irish Veterinary Journal* **13**: 193-197.

—— (1960) The use of Etrolene against the Warble Fly. *Irish Veterinary Journal* **14**: 14-15.

Hatch, C., McCaughey, W. J. and O'Brien, J. J. (1976) The prevalence of *Gasterophilus intestinalis* and *G. nasalis* in Ireland. *Veterinary Record* **98**: 274-276.

Haughton, J. (1854-55) On the Coleoptera infesting granaries. *Proceedings of the Natural History Society of Dublin* **1**: 153-154 & *The Natural History Review (Proceedings of Societies)* **2**: 14-15.

Haukeland, S. and Lola-Luz, T. (2010) Efficacy of the entomopathogenic nematodes *Steinernema kraussei* and *Heterorhabditis megidis* against the black vine weevil *Otiorhynchus sulcatus* in open field-grown strawberry plants. *Agricultural and Forest Entomology* **12**: 363-369.

Hume, H., Dunne, R. and O'Connor, J. P. (1990) *Liriomyza huidobrensis* (Blanchard) (Diptera: Agromyzidae), an imported pest new to Ireland. *Ir. Nat. J.* **23**: 325-326.

Hume, H. D. and Conway, T. (1993) Recent introductions of alien pests and diseases into Ireland. Pp 67-81. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin.

Hutchison, M. (1974) The eradication of the Ox Warble Fly. *Agriculture in Northern Ireland* **48**: 308-310.

Jefferson, R. G. (2020) Non-native plants in Britain & Ireland - how much do we know about their insect fauna? *Antenna* **44**: 161-166.

Jennings, A., Duggan, E., Perry, I. J. and Hourihane, J. O. (2010) Epidemiology of allergic reactions to Hymenoptera stings in Irish school children. *Pediatric Allergy and Immunology* **21**: 1166-1170.

Johnson, J. C. (1913) Formalin as an insecticide. *Ir. Nat.* **22**: 19.

Johnson, W. F. (1910) Grain beetles at Belfast. *Ir. Nat.* **19**: 139.

Kanvil, S., Powell, G. and Turnbull, C. (2014) Pea aphid biotype performance on diverse *Medicago* host genotypes indicates highly specific virulence and resistance functions. *Bulletin of Entomological Research* **104**: 689-701.

Keane, M., McCarthy, R. and Hogan, J. (1989) Forest health surveys in Ireland: 1987 and 1988 results. *Irish Forestry* **46**: 59-62. (Hem.: *Elatobium abietinum* & Hym.: *Neodiprion sertifer*)

Kearney, A. (1980) Parasites of sheep and their control. *Proceedings of Lowland Sheep Seminar, April 22-24 (1980)* **Paper 15**. An Foras Taluntais.

Keiding, J. (1999) Review of the global status and recent development of insecticide resistance in field populations of the housefly *Musca domestica* (Diptera: Muscidae). *Bulletin of Entomological Research* **89**, Supplement 1, pp 7-67.

Kell, G. V. and Blackshaw, R. P. (1987) Grassland characteristics influencing leatherjacket populations. *Proceedings of Crop Protection in Northern Britain* p. 422.

—— (1987) Studies on natural enemies of leatherjacket populations in Northern Ireland. *Proceedings of Crop Protection in Northern Britain* p. 423.

—— (1988) The influence of agricultural practices on leatherjacket populations in Northern Ireland. *Proceedings of the 12th General Meeting of the European Grassland Federation* pp 504-508.

Kelly, M. T. and Curry, J. P. (1985) Studies on the arthropod fauna of a winter wheat crop and its response to the pesticide methiocarb. *Pedobiologia* **28**: 413-421 (Col. (named to species), Coll. (named to species), Diplura, Dipt., Thysan.)

—— (1991) The influence of phenolic compounds on the suitability of three *Salix* species as hosts for the willow beetle *Phratora vulgatissima. Entomologia Experimentalis et Applicata* **61**: 25-32.

Kennedy, T. F. (1993) Control of seedling pests in sugar beet using pellet-incorporated insecticides. IGAPA Research Meeting abstract. *Irish Journal of Agricultural Research* **32**: 116-117. (Coll., Hem.)

—— (1994) Capsid damage and control in sugar beet. ITLUS Research Meeting abstract. *Irish Journal of Agricultural Research* **33**: 104-105.

Kennedy, T. F. (1996) The control of slug damage to seedling beet, in Ireland, with special reference to band placement of slug pellets. *BCPC Symposium Proceedings* **No. 66**: *Slugs and Snails in Agriculture* pp 377-382. (Dipt.: Tipulidae)

—— (2000) Yield reductions in spring barley due to aphids. Agricultural Research Forum abstract. *Irish Journal of Agricultural Research* **39**: 490-491.

Kennedy, T. F. and Connery, J. (1997) *Pests of sugar-beet in Ireland*. Teagasc, Carlow. 72pp (Col., Coll., Dipt., Hem., Hym., Lep., Neur.)

—— (2001) Barley yellow dwarf virus in winter barley in Ireland: yield loss and timing of autumn aphicides in controlling the MAV-strain. *Irish Journal of Agricultural and Food Research* **40**: 55-70.

Kenny, J. E. and O'Nuallain, T. (1954-55) Observations on the Warble-Fly problem: internal medication with Phenothiazine, Phenothiazine + Hexachloroethane and Hypolin against the migrating larvae. *Journal of the Department of Agriculture* **51**: 63-71.

—— (1955) Observations on the Warble-fly problem: internal medication with Phenothiazine, Phenothiazine + Hexachloroethane and "Hypolin" against the migrating larvae. *Irish Veterinary Journal* **9**: 148-154.

Kenny, J. E. and Thornberry, H. (1958) Systemic insecticides with special reference to DOW ET-57 (Trolene). *Irish Veterinary Journal* **12**: 4-5.

—— (1958) Trolene (DOW ET-57) trials 1957-58. *Irish Veterinary Journal* **12**: 198-200.

—— (1959) "Trolene" (DOW ET-57) trials 1958-59. *Irish Veterinary Journal* **13**: 176-180.

—— (1962) Field trials with Ruelene as a Warble Fly larvicide. *Irish Veterinary Journal* **16**: 201-205.

Kinahan, J. R. (1855) (Coleoptera from granaries). *The Natural History Review (Proceedings of Societies)* **2**: 15.

Lafferty, H. A., Rhynehart, J. G. and Pettybridge, G. H. (1922) Investigations on flax diseases III. *Journal of the Department of Agriculture* **22**: 103-120.

Leather, S. R., Day, K. R. and Salisbury, A. N. (1999) The biology and ecology of the large pine weevil. *Hylobius abietis* (Coleoptera: Curculionidae): a problem of dispersal? *Bulletin of Entomological Research* **89**: 3-16.

Leather, S. R., Walters, K. F. A. and Dixon, A. F. G. (1989) Factors determining the pest status of the bird cherry-oat aphid, *Rhopalosiphum padi* (L.) (Hemiptera: Aphididae), in Europe: a study and review. *Bulletin of Entomological Research* **79**: 345-360. (of little importance in Ireland)

Linnie, M. J. (1987) Pest control: A survey of natural history museums in Great Britain and Ireland. *International Journal of Museum Management and Curatorship* **6**: 277-290.

—— (1990) A further record of *Anthrenus verbasci* (L.) (Coleoptera: Dermestidae) in Ireland. *Ir. Nat. J.* **23**: 219-220.

Lola-Luz, T., Downes, M. and Dunne, R. (2005) Control of black vine weevil larvae *Otiorhynchus sulcatus* (Fabricius) (Coleoptera: Curculionidae) in grow bags outdoors with nematodes. *Agricultural and Forest Entomology* **7**: 121-126.

Loughnane, J. B. (1940) A survey of the Aphis population of potatoe crops in Ireland in relation to the production of seed potatoes. *Journal of the Department of Agriculture* **37**: 370-382.

Loughnane, J. B. (1943) *Aphis rhamni* Boyer; its occurrence in Ireland and its efficiency as a vector of potatoe viruses. *Journal of the Department of Agriculture* **40**: 291-298.

Lucy, F. E. *et al.* (2020), *Management of Biological Invasions* **11**: 155–177. <https://doi.org/10.3391/mbi.2020.11.2.01>

Madden, D., Harrison, S., Finn, J. and Ó hUallacháin, D. (2019) The impact of cattle drinking points on aquatic macroinvertebrates in streams in south-east Ireland. *Irish Journal of Agricultural and Food Research* **58**: 13-20.

Martin, J. H., Mifsud, D. and Rapisarda, C. (2000) The whiteflies (Hemiptera: Aleyrodidae) of Europe and the Mediterranean basin. *Bulletin of Entomological Research* **90**: 407-448. (*Pealis quercus* (Signoret), *Siphoninus immaculatus* (Heeger))

Matheson, R. E. (1890) *Special report on insects, fungi and weeds injurious to farm crops.* Supplement to the Agricultural statistics of Ireland for the year 1889. HMSO, Dublin.

McAree, D. T. and MacKenzie, R. F. (1993) Guarding against potential threats to Irish forests. Pp 83-94. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Col., Hym., Lep.)

McCarthy, R. (1993) Monitoring forest condition in Ireland (1988-91). *Irish Forestry* **50**: 21-34. (*Elatobium abietinum*)

McCracken, A. (2013) Current and emerging threats to Ireland's trees from diseases and pests. *Irish Forestry* **70**: 18-35. (Col., Lep.)

McCracken, A. R. and Blackshaw, R. P. (1993) The protection of the Northern Ireland nursery stock industry from harmful organisms. Pp 55-66. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Dipt., Hem., Lep., Thysan)

McKay, R. (1948) Some observations on plant diseases in Ireland in 1947. *Journal of the Department of Agriculture* **45**: 45-50.

McKay, R. and Loughnane, J. B. (1946) A survey of flax diseases in Eire in 1945. *Journal of the Department of Agriculture* **43**: 24-30.

—— (1947) Notes on flax diseases in 1946. *Journal of the Department of Agriculture* **44**: 37-40.

McKay, R., Loughnane, J. B. and Barry, P. J. (1951-52) Observations on plant diseases in 1951. *Journal of the Department of Agriculture* **48**: 184-192.

McMahon, E. (1942) Observations on flea beetles which attack cruciferous crops. *Journal of the Department of Agriculture* **39**: 80-83.

—— (1954) Wheat-blossom Midges. *Agricultural Record (Dublin)* **7**: 16-20.

—— (1954-55) Wheat Blossom Midges. *Journal of the Department of Agriculture* **51**: 58-62.

—— (1962) Wheat Blossom Midge investigations. *Scientific Proceedings of the Royal Dublin Society Ser. B* **1**: 47-57.

McNamara, L., Kapranas, A., Williams C. D., O'Tuama P., Kavanagh, K. and Griffin, C. T. (2018) Efficacy of entomopathogenic fungi against large pine weevil, *Hylobius abietis*, and their additive effects when combined with entomopathogenic nematodes. *Journal of Pest Science* **91**: 1407-1419.

Mercer, P. C. and Blackshaw, R. P. (1983) Cereal pests and diseases in 1982/83. *Agriculture in Northern Ireland* **58**: 255-258.

—— (1985) Cereal diseases and pests 1984/85. *Agriculture in Northern Ireland* **60**: 309-312.

Minchin, D. (2019) The Horse-chestnut Leaf Miner (*Cameraria ohridella* Deschka and Demić) (Lepidoptera: Gracillariidae), arrives in Co. Clare. *Ir. Nat. J.* **36**: 153-154.

Minchin, D. and Baars, J.-R. (2020) The water fern *Azolla filiculoides* Lam. (Azollaceae): from well-established to disappeared (H9). *Ir. Nat. J.* **37**: 14-17. (Col.: *Stenopelmus rufinasus*)

Moffat, C. B. (1900) "Warbles" in horses. *Ir. Nat.* **9**: 247.

Moore, F. W. (1904-05) The apple. *Journal of the Department of Agriculture* **5**: 101-106.

Moths Ireland (2020) MothsIreland, mapping Ireland's moths. <www.mothsireland.com>

—— (2020) Moths Ireland, National Biodiversity Data Centre. <https://maps.biodiversityireland.ie/Dataset/143>

Mowat, D. J. (1969) Effects of times and methods of application on the performance of insecticides against Carrot-Fly and Carrot-Willow Aphid. *Proceedings of the 5th British Insecticide and Fungicide Conference*: 255.

—— (1970) Experiments on the control of Cabbage Root Fly *Erioischia brassicae* (Bouche) in transplanted brassicas by seedbed treatment. *Horticultural Research* **10**: 145.

—— (1971) A method for the control of Cabbage Root Fly *Erioischia brassicae* (Bouche) in transplanted brassicas. *Horticultural Research* **11**: 98-106.

—— (1973) Experiments on the placement, size and insecticide concentration of insecticide granules for the control of the Carrot Fly *Psila rosae* (F). *Horticultural Research* **13**: 33-40.

—— (1974) The effect of Shoot-fly larvae (Diptera) on grass yield. *Journal of the British Grassland Society* **29**: 285-290.

—— (1975) The Frit-fly in Autumn-sown ryegrass. *Agriculture in Northern Ireland* **51**: 42-43.

—— (1975) The influence of application, precision and rainfall on Cabbage Root Fly control by field-applied insecticides. *Records of Agricultural Research of the Department of Agriculture, Northern Ireland* **23**: 19-22.

—— (1978) Frit fly damage to seedling ryegrass. *Agriculture in Northern Ireland* **53**: 70-71.

—— (1978) The effect of dipterous shoot-flies on seedling and established ryegrass. *In* The Proceedings of the Symposium on Grassland Fauna. *Scientific Proceedings of the Royal Dublin Society Ser A.* **6**: 359-366.

—— (1979) The effect of 1978 Spring weather on two pests. *Agriculture in Northern Ireland* **53**: 310-311.

Mowat, D. J. and Martin, S. J. (1980) A comparison of insecticides applied to a brassica seed-bed for the post-transplanting control of cabbage root fly *Delia brassicae* (Wied). *Record of Agricultural Research of the Department of Agriculture of Northern Ireland* **28**: 37-40.

—— (1982) Cabbage root fly - a serious pest of brassicas. *Agriculture in Northern Ireland* **56**: 372-375.

Murchie, A. K. (2009) Meeting report. The 2008 Northern Irish Regional. *Antenna* **33**: 96-97. (Diptera: blue tongue virus)

—— (2016) Insect-proofing Fortress Ireland. *2016 International Congress of Entomology*.

Nash, R. and O'Connor, J. P. (1982) *Limnophora exuta* and *Leptocera caenosa* (Insecta: Diptera) new to Ireland. *Ir. Nat. J.* **20**: 549-550.

—— (1990) Insects imported into Ireland 9. Records of Orthoptera, Dictyoptera, Homoptera and Hymenoptera including Roger's ant, *Hypoponera punctatissima* (Roger). *Ir. Nat. J.* **23**: 255-257.

National Biodiversity Data Centre (2020) All Ireland Marsh Fritillary Database. <https://maps.biodiversityireland.ie/Dataset/226>

—— (2020) Butterflies of Ireland. <https://maps.biodiversityireland.ie/Dataset/116>

—— (2020) Distribution Atlas of Butterflies in Ireland 1979 (An Foras Forbartha). <https://maps.biodiversityireland.ie/Dataset/94>

—— (2020) Moth Records of Ireland. <https://maps.biodiversityireland.ie/Dataset/268>

—— (2020) Leafminers of Ireland. <https://maps.biodiversityireland.ie/Dataset/254> (Col., Dipt., Hym., Lep.)

National Parks & Wildlife Service (2020), Irish Wood White Database. <https://maps.biodiversityireland.ie/Dataset/103>

Neenan, M. and Kennedy, T. F. (1989) *Cryptorhynchus lapathi* (L.), a potential pest of willow plantations. *Ir. Nat. J.* **23**: 32.

O'Brien, J. (1958) Insect pests of root crops. *Agricultural Ireland* **15**: 113-115.

—— (1961) Insect pests of root crops. *Agricultural Ireland* **18**: 98-99.

—— (1961) Wireworm can cut profits. *Agricultural Ireland* **18**: 71.

—— (1962) Insect pests of root crops. *Agricultural Ireland* **19**: 71.

—— (1964) The Wireworm pest. *Irish Farmer* **2**: 35-36.

O'Callaghan, D. (1980) Viewpoint (Dutch elm disease). *Taisce Journal* **4**: 8-9.

O'Carroll, N. and de Brit, G. (1966) Chemical control of the Large Pine Weevil (*Hylobius abietis* L.). *Proceedings of the Irish Crop Protection Conference (1966)*: 107-119. An Foras Taluntais, Dublin.

O'Connor, A. (1998) Painting conservation. Pp 7-30. *In* O'Connor, A. and McGuinne, N. *The deeper picture. Conservation at the National Gallery of Ireland.* National Gallery of Ireland, Dublin. (Pp 12-13 "Heritage eaters: the Caravaggio infestation" - *Stegobium paniceum*)

O'Connor, J. (2005) Guess who's staying the night? Meet some of the house guests who like to stay for dinner or simply a quick bite to eat. P. 8. *In* Smyth, P. (ed.) *Wild in the City*. The third in an occasional series of supplements on our natural history and environment. *The Irish Times* Tuesday April 19, 2005.

O'Connor, J. P. (1981) Notes on insect pests received for identification by the National Museum of Ireland. *Bulletin of the Irish Biogeographical Society* **5**: 5-14.

—— (1984) Notes on insect pests received for identification by the National Museum of Ireland: a second report. *Bulletin of the Irish Biogeographical Society* **7**: 38-44. (Anop., Col., Dicty., Dipt., Hem., Hym., Lep., Psoc., Siphon., Thysanura)

—— (1987) *Alphitobius diaperinus* (Panzer) (Col., Tenebrionidae) damaging polystyrene insulation in an Irish piggery. *Entomologist's mon. Mag.* **123**: 50.

O'Connor, J. P. (1997) Insects and entomology. Pp 219-240. *In* Foster, J. W. and Chesney, H. C. G. (eds) *Nature in Ireland. A scientific and cultural history*. The Lilliput Press, Dublin. (overall review. Col., Derm., Dicty., Dipt., Eph., Hem., Hym., Lep., Neur., Odon., Orth., Phth., Plec., Psoc., Siphon., Thysan., Thysanura, Trich.)

—— (1998) *Dermestes peruvianus* Laporte de Castelnau (Col., Dermestidae), new to Ireland. *Entomologist's mon. Mag.* **134**: 93.

—— (2005) *Glischrochilus hortensis* (Geoffroy) (Nitidulidae) attacking raspberries and tomatoes in Ireland. *The Coleopterist* **14**: 6.

O'Connor, J. P. and Ashe, P. (1992) *Drosophila repleta* Wollaston (Dipt., Drosophilidae), an unsavoury find in a Dublin pub. *Entomologist's mon. Mag.* **128**: 146.

—— (1994) Further records of *Drosophila repleta* Wollaston (Diptera) in Ireland. *Ir. Nat. J.* **24**: 467.

—— (2000) A record of *Drosophila funebris* (Fabr.) (Diptera: Drosophilidae) from Carlow. *Ir. Nat. J.* **26** (1999): 278.

—— (2000) *Irish indoor insects. A popular guide.* Town House, Dublin. xv + 180pp. (Col., Coll., Derm., Dicty., Dipt., Hem., Hym., Lep., Neur., Orth., Phth., Psoc., Siphon., Thysan., Thysanura)

—— (2007) Contributions towards a checklist of insects feeding on Irish trees. Part 1: Hymenoptera, Lepidoptera and Orthoptera. *Bulletin of the Irish Biogeographical Society* **31**: 197-267.

O'Connor, J. P., Ashe, P., O'Neill, L., Bond, K. G. M. and Murray, D. A. (1990) Records of some insect pests which recently caused public concern in Ireland. *Bulletin of the Irish Biogeographical Society* **13**: 141-165. (Anop., Col., Derm., Dicty., Dipt., Hem., Hym., Lep., Neur., Psoc., Siphon., Thysan., Thysanura)

O'Connor, J. P. and O'Connor, M. A. (1984) The fir seed chalcid, *Megastigmus pinus* Parfitt (Hym., Torymidae), new to Ireland. *Entomologist's mon. Mag.* **120**: 102.

O'Connor, J. P., O'Connor, M. A. and Ashe, P. (1999) *Drosophila repleta* Wollaston (Diptera: Drosophilidae) in south-east Ireland. *Ir. Nat. J.* **26** (1998): 55.

O'Connor, J. P. and Smithers, C. N. (1999) *Dorypteryx domestica* (Smithers) (Psocoptera, Psyllipsocidae) new to Ireland. *Entomologist's mon. Mag.* **135**: 242.

O'Connor, J. P. and Speight, M. C. D. (1987) *Macrosiphum albifrons*, *Dictenida bimaculata*, *Callaspidia defonscolombei* and *Xyalaspis petiolata*: insects new to Ireland. *Ir. Nat. J.* **22**: 199-201.

O'Connor, R. (1949) The Wireworm. *Agricultural Ireland* **6**: 273-276.

—— (1949) The Colorado Beetle. *Agricultural Ireland* **6**: 251-255.

O'Farrell, A. F. and Butler, P. M. (1948) Insects and mites associated with the storage and manufacture of foodstuffs in Northern Ireland. *Economic Proceedings of the Royal Dublin Society* **3**: 343-407.

O'Flynn, C. (2012) Invasive species. Spot the alien! *Biodiversity Ireland* **Issue 9**: 15. (Col.: Harlequin Ladybird, Red Lily Beetle)

—— (2015) Have you see an alien? *Biodiversity Ireland* **Issue 11**: 10-11. (Col.: Harlequin Ladybird; Hym.: Asian Hornet)

—— (2016) EU embargoes 37 invasive species. *Biodiversity Ireland* **Issue 14**: 14. (Asian Hornet)

O'Flynn, C., Kelly, J. and Lysaght, L. (2014) Ireland's invasive and non-native species - trends in introductions. *National Biodiversity Data Centre Series* **No. 2**.

O'Hanlon, R., Ryan, C., Choiseul, J., Murchie, A. K. and Williams, C. (2020) Catalogue of pests and pathogens of trees on the island of Ireland. doi:10.20944/preprints202005.0168.v1 <https://www.google.com/search?client=firefox-b-d&q=Catalogue+of+Pests+and+Pathogens+of+Trees+on+the+Island+of+Ireland>

O'Kennedy, N. D. (1962) Some major pests and diseases of apples. *Proceedings of the Irish Crop Protection Conference (1962)*: 165-169. An Foras Taluntais, Dublin.

O'Mahony, E. (1928) *Dermestes* attacking tobacco. *Entomologist's mon. Mag.* **64**: 89.

O'Riain, S., Ryan, M. F. and McNaeidhe, F. (1977) Carabid beetles and the biological control of the Cabbage Root Fly. *Proceedings of a Seminar on Biological Control, Royal Irish Academy, Dublin 1977*: 154-160.

O'Rourke, F. J. (1950) The carriage of insects by aeroplane with reference to the possible introduction of noxious insects into Ireland. *Journal of the Department of Agriculture* **47**: 87-96.

—— (1950) The dangers of the carriage of insects by aircraft and a suggested precautionary measure. *Transactions of the 8th International Congress of Entomology, Stockholm, 1948*: 946-947.

—— (1955) Arthropods and human health. *Irish Journal of Medical Science* **350**: 78-82.

—— (1955) The medical and veterinary importance of the Formicidae. *Insects Sociaux* (Paris) **29**: 107-118.

—— (1957-58) The future of insect control - biological or chemical? *Journal of the Institute of Chemistry of Ireland* 1957-58 (1960) **5**: 28-41.

—— (1980) Development and scope of biological control. *Proceedings of a Seminar on Biological Control, Royal Irish Academy, Dublin 1977*: 1-16.

O'Scanaill, P. (1965) Warble fly eradication. *Irish Veterinary Journal* **19**: 91-94.

O'Sullivan, J. (2013) A record of *Lilioceris lilii* (Scopoli) (Chrysomelidae: Criocerinae) from Co. Cork. *Ir. Nat. J.* **32**: 148.

—— (2015) A breeding site for the Harlequin Ladybird (*Harmonia axyridis* (Pallas)) (Coleoptera: Coccinellidae) in Co. Cork. *Ir. Nat. J.* **34**: 72-73.

Oormazdi, H. and Baker, K. P. (1974) Bionomics of cattle lice in Ireland. *Veterinary Record* **95**: 84-85.

—— (1980) Studies on the effects of lice on cattle. *British Veterinary Journal* **136**: 146-153.

Otte, B. (1962) New methods for control of warble infestations. *Irish Veterinary Journal* **16**: 95-100.

Oxbrough, A., French, V., Irwin, S., Kelly, T. C., Smiddy, P. and O'Halloran, J. (2012) Can mixed species stands enhance arthropod diversity in plantation forests? *Forest Ecology and Management* **270**: 11-18.

Paine, T. D., Steinbauer, M. J. and Lawson, S. A. (2011) Native and exotic pests of *Eucalyptus*: a worldwide perspective. *Annual Review of Entomology* **56**: 181-201. (Col., Hem.)

Parker, W. E. and Howard, J. J. (2001) The biology and management of wireworms (*Agriotes* spp.) on potato with particular reference to the U.K. *Agricultural and Forest Entomology* **3**: 85-98.

Phillips, C. B., Iline, I. I., Vink, C. J., Winder, L. M. and McNeill, M. R. (2006) Methods to distinguish between the *Microctonus aethiopoides* strains that parasitise *Sitona lepidus* and *Sitona discoideus*. *New Zealand Plant Protection* **59**: 297-303. (Col., Hym.)

Ramsdale, C. and Snow, K. (1999) A preliminary checklist of European mosquitoes. *European Mosquito Bulletin* **5**: 25-35. (*Aedes detritus*: the taxon described by Haliday (1833) from Ireland = sibling species B)

Reid, C. A. M. and De Little, D. W. (2013) A new species of *Paropsisterna* Motschulsky, 1860, a significant pest of plantation eucalypts in Tasmania and Ireland (Coleoptera: Chrysomelidae: Chrysomelinae). *Zootaxa* **3681**: 395-404.

Rhynehart, J. G. (1925) The Willow Aphis on Apple. *Entomologist* **58**: 19.

Ryan, E. W. and Dunne, R. (1993) Harmful organisms in horticultural crops in Ireland. Pp 31-44. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Col., Derm., Dipt., Hem., Hym., Lep., Thysan.)

Ryan, M. F., Guerin, P. M. and Behan, M. (1978) Possible roles for naturally occurring chemicals in the biological control of the carrot fly. Pp 130-153. *In* Duggan, J. J. (ed.) *Proceedings of a Seminar on Biological Control, Royal Irish Academy, Dublin 1977.*

Salisbury, A. and Halstead, A. (2012) Garden Entomology. The work of the Royal Horticultural Society's entomologists. *Antenna* **36**: 102-112. (Rosemary Beetle: *Chrysolina americana*; Lily Beetle: *Lilioceris lilii*)

Shannon, W. G. (1952-53) Comparative efficiency of several insecticides in the control of lice on hens kept intensively on deep litter. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **1952-3**: 116-121.

Sherrard, O. (1925-26) The Winter spraying of fruit trees. *Journal of the Department of Agriculture* **25**: 297-304.

Sleeman, D. P. and Gray, J. S. (1982) Some observations on fly-worry of deer. *Journal of Zoology, London* **198**: 535-541.

Smithers, C. N., O'Connor, J. P. and Peters, J. V. (2000) A list of Irish Psocoptera (Insecta) (Booklice, barklice, psocids). *Ir. Nat. J.* **26** (1999): 228-235.

Snow, K. (1998) Distribution of *Anopheles* mosquitoes in the British Isles. *European Mosquito Bulletin* **1**: 9-13.

—— (1999) Malaria and mosquitoes in Britain: the effect of global climate change. *European Mosquito Bulletin* **4**: 17-25.

Snow, K. and Ramsdale, C. (1999) Distribution chart for European mosquitoes. *European Mosquito Bulletin* **3**: 14-31.

Thompson, G. M., Jess, S. and Murchie, A. K. (2012) A review of African horse sickness and its implications for Ireland. *Irish Veterinary Journal* **65**, issue 9. <http://www.irishvetjournal.org/content/65/1/9> (*Culicoides*)

Thornberry, H. (1963) Control of *Hypoderma* larvae. *Irish Veterinary Journal* **17**: 162-171.

—— (1965) Eradication of the Ox-warble fly in Ireland. *Journal of the American Veterinary Medical Association* **147**: 1593-1599.

Thornberry, H. (1968) Warble fly eradication in Ireland. *Journal of the Society of Leather Trades Chemists* **53**: 244-251.

—— (1968) Symposium on the problems of the Warble Fly and its eradication in the U.K. III Eradication of the Warble Fly in Ireland. *The Veterinarian* **5**: 185-195.

—— (1972) Use of systemic insecticides for regional control of Warble Flies. Pp. 318-343. *In* Khan, M. A. and Haufe, W. O. (eds) *Toxicology, Biodegradation and Efficacy of Livestock Pesticides*. Swets & Zeitunger, Amsterdam.

—— (1975) Warble-fly eradication in Ireland. *The Veterinary Services Bulletin* **5**: 33-41.

—— (1975) Warble fly eradication campaign in Ireland. *Veterinary Medical Review* **1/2**: 139-147.

—— (1976) Warble-fly eradication in Ireland. *Irish Veterinary Journal* **30**: 83-88.

Thornberry, H. and Kenny, J. E. (1965) A review of investigations into the warble-fly problem, 1900-1964, in Ireland. *Journal of the Department of Agriculture* **62**: 5-16.

Tighe, W. (1802) *Statistical observations relative to the county Kilkenny made in the years 1800 and 1801.* Graisberry and Campbell, Dublin.

Todd, W. D. M. (1993) Plant health legislation in Northern Ireland in 1990. Pp 153-160. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin. (Colorado Beetle/South American Leaf-miner)

Trájer, A. J. and Padisák, J. (2019) Exploration of the main types of biome-scale culicid entomofauna (Diptera: Culicidae) in Europe and its relationship to the occurrence of mosquito-borne arboviruses. *Acta Zoologica Academiae Scientiarum Hungaricae* **65**: 299-322.

Tuffen, M. G. and Grogan, H. M. (2019) Current, emerging and potential pest threats to Sitka spruce plantations and the role of pest risk analysis in preventing new pest introductions to Ireland. *Forestry: An International Journal of Forest Research* **92**: 26-41.

Vaux, A. G. C., Dallimore, T., Cull, B., Schaffner, F., Strode, C., Pflüger, V., Murchie, A. K., Rea, I., Newham, Z., Mcginley, L., Catton, M., Gillingham, E. L. and Medlock, J. M. (2019) The challenge of invasive mosquito vectors in the U.K. during 2016-2018: a summary of the surveillance and control of *Aedes albopictus*. *Medical and Veterinary Entomology* **33**: 443-452.

Vaux, A. G. C., Murphy, G., Baskerville, N., Burden, G., Convery, N., Crossley, L., Dettman, L., Haden, P., Jarrold, L., Massey, C., Napier, K. and Pocknell, I. (2011) Monitoring for invasive and endemic mosquitoes at UK ports. *European Mosquito Bulletin* **29**: 133-140. (Belfast)

Venhorst, B., Schulte, R. P. O. and Gormally, M. (2000) Field and laboratory investigations of sciomyzids (Diptera: Sciomyzidae) for the biological control of liver fluke. Agricultural Research Forum abstract. *Irish Journal of Agricultural Research* **39**: 486.

Walsh, L., Gaffney, M., Malloch, G., Foster, S., Williamson, M., Mangan, R. and Purvis, G. (2019) First evidence of retained sexual capacity and survival in the pyrethroid resistant *Sitobion avenae* (F.) (Hemiptera: Aphididae) SA3 super-clone following exposure to a pyrethroid at current field-rate. *Irish Journal of Agricultural and Food Research* **58**: 21-26.



Walsh, L. E., Gaffney, M. T., Malloch, G. L., Foster, S. P., Williamson, M. S., Mangan, R. and Purvis, G. (2019) First evidence of retained sexual capacity and survival in the pyrethroid resistant *Sitobion avenae* (F.) (Hemiptera: Aphididae) SA3 super-clone following exposure to a pyrethroid at current field-rate. *Irish Journal of Agricultural and Food Research* **58**: 21-26.

Walsh, L. E., Schmidt, O., Williamson, M. S. and Gaffney, M. T. (2020) In-field prevalence of resistant grain aphid *Sitobion avenae* (Fabricius). *Biology & Environment: Proceedings of the Royal Irish Academy* **120**B: 29-38.

Walsh, P. F. (1993) Plant health legislation in the Republic of Ireland in 1990. Pp 137-152. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992.* Royal Irish Academy, Dublin. (Colorado Beetle)

Walsh, P. F. and Mangan A. (1977) Dutch Elm Disease Survey 1977. *Journal of the Department of Agriculture* **74**: 40-43.

Ward, D., Keane, M. and Seaby, D. (1993) Harmful organisms in forestry production. Pp 45-54. *In* Kavanagh, J. A. and Brennan, P. (eds) *Plant health and 1992*. Royal Irish Academy, Dublin (Col., Dipt., Hem., Hym., Lep.)

Wilbraham, R. J., McCombe, M. and Boyle, M. P. (1952) Control of lice on hens kept intensively on deep litter. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **1952**: 60-63.

Willis, R. J. (1958) Chemical control of cabbage root fly attacks on cauliflower crops. *Research and Experimental Record. Ministry of Agriculture, Northern Ireland* **8**: 53-72.

—— (1963) Another leatherjacket year? *Agriculture in Northern Ireland* **37**: 306-311.

—— (1965) Leatherjackets. *Agriculture in Northern Ireland* **39**: 388.

—— (1972) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1972**: 51-61.

—— (1973) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1973**: 51-64.

—— (1974) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1974**: 49-67.

—— (1975) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1975**: 49-56.

—— (1976) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1976**: 47-54.

—— (1977) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1978**: 47-61.

—— (1978) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* 53-67.

Willis, R. J. *et al*. (1966) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1966**: 9-15.

—— (1967) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1967**: 9-18.

—— (1968) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1968**: 11-19.

—— (1969) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1969**: 13-21.

Willis, R. J. *et al*. (1970) (Report of) Agricultural Entomology Research Division. *Ann. Rept. N.I.* **1970**: 13-20.

—— (1971) (Report of) Agricultural Entollology Research Division. *Ann. Rept. N.I.* **1971**: 25-35.

APPENDIX. A list of the journals which contained articles on Irish insects.

Abhandlungen und Berichte des Naturkundemuseum S Gorlitz
Acta Biologica Debrecina Oecologica Hungarica
Acta Entomologica Bohemoslavica
Acta Entomologica Serbica
Acta Horticulturae
Acta Oecologica
Acta Phytopathologica et Entomologica Hungarica
Acta Societas Zoologicae Bohemicae
Acta Theriologica
Acta Universitatis Carolinae - Biologica
Acta Zoologica Academiae Scientiarum Hungaricae
Acta Zoologica Bulgarica
Acta Zoologica Lituanica
Agricultural and Forest Entomology
Agriculture Ecosystems & Environment
Agricultural Entomology Division. Annual Report. Northern Ireland Agriculture in Northern Ireland
AIDGAP
American Museum Novitates
An Foras Forbartha, Environmental Education Newsletter
An Taisce Journal
Analele Ştiinţifice ale Universităţii "AI. I. Cuza" Iaşi, s. Biologie animală
Annales de la Société entomologique de France (N.S.)
Annales Zoologici
Annales Zoologici Fennici
Annals and Magazine of Natural History
Annals of Applied Biology
Annals of the Entomological Society of America
Annual Report of the Dublin Natural History Society
Annual Report on Research and Technical Work of the Ministry of Agriculture in Northern Ireland = Ann. Rept. N.I.
Annual Review of Entomology
Antenna
Apidologie
Applied Soil Ecology
Aquatic Conservation: Marine & Freshwater Ecosystems
Aquatic Insects
Archiv für Hydrobiologie (also under *Fundamental and Applied Limnology*)

Archives of Biological Science, Belgrade
Arquivos do Museu Nacional, Rio de Janeiro
Arthropod Systematics & Phylogeny
Atropos
Beam
Beaufortia
Beetle News
Behavioral Ecology and Sociobiology
Beiträge zur Entomologie
Belgian Journal of Zoology
Biocontrol Science and Technology
Biodiversity and Conservation
Biodiversity Data Journal
Biodiversity Ireland
Biological Agriculture and Horticulture
Biological Conservation
Biological Control
Biological Invasions
Biological Journal of the Linnaean Society
Biologist
Bird Study
Bocagiana
Boletín de la Asociación española de Entomología
Bonn Zoological Bulletin
Brandenburgischen Entomologischen Nachrichten, Potsdam
British Birds
British Journal of Entomology and Natural History
British Simuliid Group Bulletin
British Wildlife
Bulletin de l'Institut Royal des Sciences Naturelles de Belgique
Bulletin Français de la Pêche et de la Pisciculture
Bulletin of Entomological Research
Bulletin of the British Museum of Natural History (Entomology)
Bulletin of the Dipterists Forum
Bulletin of the Irish Biogeographical Society
Bulletin of the Natural History Museum
Butterfly Conservation Northern Ireland Newsletter
BWARS Newsletter
Calodema
Canadian Entomologist
Cape Clear Bird Observatory Report
Časopis Slezského muzea v Opavě (A)
Cecidology
Check List

CHIRONOMUS Journal of Chironomidae Research
COFORD Connects - Silviculture and Forest Management
Conservation Biology
Conservation Genetics
Contributions of the American Entomological Institute
Cornell University Agricultural Experiment Station Memoir
Crop Protection
Darter Magazine
Deutsche Entomologische Zeitschrift
Dipterists Digest (First Series to volume **14** (1994), Second Series from volume **1** (1994))
Dipterists Forum Bulletin
Diversity and Distributions
Ecography
Ecological Bulletin
Ecological Bulletin (Stockholm)
Ecological Engineering
Ecological Entomology
Ecological Indicators
Ecology
Ecology and Evolution
Efflatounia
Elateridarium
Emania
English Nature Research Reports
Entomofauna
Entomologia Experimentalis et Applicata
Entomologica Americana
Entomologica Fennica
Entomologica Romanica
Entomological Review
Entomological Scandinavica
Entomologische Berichten
Entomologisk tidskrift
Entomologist's Annual
Entomologist's Weekly Intelligence
Entomophaga
Environment and Heritage Service Research and Development Series (Department of the Environment for Northern Ireland)
Environmental Archaeology
European Journal of Entomology
European Journal of Environmental Sciences
European Journal of Taxonomy
European Mosquito Bulletin
F. Ü. Fen ve Mühendislik Bilimleri Dergisi

Fauna Entomologica Scandinavica
Fauna norvegica
FBA News
Fisheries Management and Ecology
Fishery Leaflet of the Department of Agriculture, Fisheries Division Dublin
Florida Entomologist
Folia Entomologica Hungarica
Folia Facultatis Scientiarium Naturalium Universitatis Purkyniae, Brunensis
Forest Ecology and Management
Forestry: An International Journal of Forest Research
Fragmenta Faunistica
Freshwater Biological Association Scientific Publication
Freshwater Biology
Freshwater Forum
Freshwater Reviews
Frontiers in Veterinary Science
Frustula Entomologica
Functional Ecology
Fundamental and Applied Limnology/Archiv für Hydrobiologie
GCB Bioenergy
Grass and Forage Science
Handbooks for the Identification of British Insects
Hemipterist
Heredity
Het News. Newsletter of the Heteroptera Recording Schemes
Heteropteron
Heteropterus Revista de Entomología
Holarctic Ecology
Horticultural Research
Horticulture Industry
Hoverfly Newsletter
Hydrobiologia
Icelandic Agricultural Sciences
Illiesia
Inland Waters
Insect Conservation and Diversity
Insect Systematics and Evolution
Insecta Mundi
Insects Sociaux (Paris)
Instrumenta Biodiversitatis
International Journal of Environmental Science and Technology
International Journal of Insect Morphology and Embryology
International Journal of Limnology [*Annls Limnol.*]
International Journal of Museum Management and Curatorship

International Journal of Water
Internationale Revue Gesamten Hydrobiologie
Invertebrate Conservation News
Irish Archaeological Wetland Unit Transactions
Irish Birds
Irish Environment News
Irish Farmer
Irish Fisheries Investigations New Series
Irish Fisheries Investigations Series A
Irish Forestry
Irish Insects Study Group Newsletter
Irish Journal of Agricultural and Food Research
Irish Journal of Agricultural Research
Irish Journal of Medical Science
Irish Naturalists' Journal = Ir. Nat. J.
Irish Veterinary Journal
Irish Wildlife Manuals
Israel Journal of Entomology
Italian Journal of Zoology
Journal of Agricultural Science
Journal of Animal Ecology
Journal of Apicultural Research
Journal of Applied Ecology
Journal of Applied Entomology
Journal of Biogeography
Journal of Biological & Environmental Sciences
Journal of Biology & Life Sciences
Journal of Ecology
Journal of Economic Entomology
Journal of Entomology
Journal of Entomology and Nematology
Journal of Forest Science
Journal of Horticultural Science
Journal of Hymenoptera Research
Journal of Insect Conservation
Journal of Insect Physiology
Journal of Invertebrate Pathology
Journal of Natural History
Journal of Pest Science
Journal of Sherkin Island
Journal of Thermal Biology
Journal of the British Dragonfly Society
Journal of the Department of Agriculture (Ireland)

Journal of the Department of Agriculture & Technical Instruction for Ireland = J.D. Ag. & T.I. for Ire.
Journal of the Institute of Chemistry of Ireland
Journal of Life Sciences of the Royal Dublin Society
Journal of Limnology
Journal of Paleolimnology
Journal of the Acadian Entomological Society
Journal of the American Veterinary Medical Association
Journal of the Institute of Chemistry of Ireland
Journal of the Limerick Field Club
Journal of the Linnaean Society: Zoology
Journal of Medical Entomology
Journal of the Ministry of Agriculture for Northern Ireland
Journal of the Society for British Entomology
Journal of the Society of Leather Technologists & Chemists
Journal of Quaternary Science
Journal of Zoology, London
Killarney Advertiser
Latissimus
Latvijas Entomologs
Lauterbornia
Leaflet of the Department of Agriculture Fisheries Division Dublin
Linzer biologische Beiträge
London Naturalist
Magazine of Zoology and Botany
Marburger Entomologische Publikationen
Marine and Freshwater Research
Medical and Veterinary Entomology
Memoirs of the American Entomological Institute
Memoirs of the American Entomological Society
Mitteilungen aus der Biologischen Bundesanalt für Land-und Forstwirtschaft
Mitteilungen der Münchener entomologischen Gessellschaft
Mitteilungen der Schweizerischen Entomologischen Gesellschaft
Mitteilungen der Zoologischen Gesellschaft Braunau
Molecular Ecology
Molecular Phylogenetics and Evolution
Munis Entomology & Zoology
Myrmecological News
Nachrichtenblatt der Bayerischen Entomologen, München
National Biodiversity Data Centre Series
National Museum of Science and Art, Dublin, Bulletin
Natura Croatica
Natura Montengrina, Podgorica
Naturalist

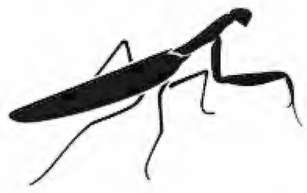
Naturalists' Handbooks
Nature Precedings
Naturkundliches Jahrbuch der Stadt Linz
Nederlandse Faunistische Mededelingen
Neuro News
New Zealand Plant Protection
Newport Research Facility. Annual Report
Northern Ireland Environment Agency Research and Development Series
Norwegian Journal of Entomology
Nota lepidopterologica
Notes fauniques de Gembloux
Nouvelle revue d'entomologie
Occasional papers in Irish science and technology
Occasional Publications of the Irish Biogeographical Society
Oecologia
Oikos
Opuscula Zoologica München
Pacific Science
Palaeogeography, Palaeoclimatology, Palaeoecology
Parasitology
Pediatric Allergy and Immunology
Pedobiologia
Pest management papers. Simon Fraser University,
Phytoparasitica
Plant and Soil
Plant Ecology
Plant Pathology
Plant Protection News, Supplement
Polskie Pismo Entomologiczne
Proceedings of the British Entomological and Natural History Society
Proceedings of the South London Entomological and Natural History Society
Proceedings and Transactions of the British Entomological and Natural History Society
Proceedings & Transactions of the South London Entomological and Natural History Society
Proceedings of Dublin University Zoological and Botanical Association
Proceedings of the Belfast Naturalists' Field Club
Proceedings of the Entomological Society of Washington
Proceedings of the Hawiian Entomological Society
Proceedings of the Lancashire and Cheshire Entomological Society
Proceedings of the Natural History Society of Dublin
Proceedings of the Prehistoric Society
Proceedings of the Royal Dublin Society
Proceedings of the Royal Irish Academy Series B
Proceedings of the Royal Irish Academy. Section C
Proceedings of the Russian Entomological Society, St. Petersburg

Quaternary International
Quaternary Science Reviews
Rapport et Proces-verbaux des Reunion. Conseil Permanent International pour l'exploration de la mer
Records of Agricultural Research of the Department of Agriculture, Northern Ireland
Records of Agricultural Research of the Ministry of Agriculture, Northern Ireland
Research and Development in Agriculture
Research and Experimental Record. Ministry of Agriculture, Northern Ireland
Review of Hydrobiology
Revue d'écologie et de biologie du Sol
Revue Suisse de Zoologie
Ringing and Migration
Science Gossip
Science of the Total Environment
Scientific Data
Scientific Proceedings of the Royal Dublin Society
Scientific Publications of the Freshwater Biological Society
Scientific Report of the Murlough National Nature Reserve
Scientific Research and Essays
Scopolia
Sherkin Comment
Silva Gabreta
Simuliid Group Bulletin
Smithsonian Contributions to Zoology
Soil Biology and Biochemistry
Soil Organisms
Spixiana
Stettiner Entomologische Zeitung
Studia Dipterologica
Systematic Entomology
Tearmann: The Irish Journal of Agri-environmental Research
Tests of Agrochemicals and Cultivars
The Balfour-Browne Club Newsletter
The Biology Curator
The Bulletin of the Amateur Entomologists' Society
The Canadian Entomologist
The Coleopterist
The Economic Proceedings of the Royal Dublin Society
The Entomological Magazine
The Entomologist
The Entomologist's Annual
The Entomologist's Gazette
The Entomologist's Monthly Magazine = *Entomologist's mon. Mag.*
The Entomologist's Record and Journal of Variation = *Entomologist's Rec. J. Var.*

The Environment
The European Journal of Soil Biology
The Glasgow Naturalist
The Holocene
The Irish Naturalist = Ir. Nat.
The Irish Times
The Journal of the Entomological Exchange and Correspondence Club
The Journal of the Entomological Research Society
The Journal of the Entomological Society of Southern Africa
The Journal of the Irish Medical Association
The Natural History Review
The Proceedings of the Entomological Society of London
The Proceedings of the Royal Entomological Society of London Series B
The Simuliid Bulletin
The Transactions of the American Entomological Association
The Veterinarian
The Veterinary Services Bulletin
Tijdschrift voor Entomologie
Tipperary Historical Journal
Transactions of the Cave Research Group of Great Britain
Transactions of the Entomological Society of London
Transactions of the Entomological Society of the South of England
Transactions of the Leicester Literary and Philosophical Society
Transactions of the Natural History Society of Glasgow
Transactions of the Royal Entomological Society of London
Transactions of the Society of British Entomology
Travaux du Muséum National d'Histoire Naturelle <<Grigore Antipa>>
TResearch
Turkish Journal of Zoology
Turkiye Entomoloji Dergisi
Türkiye Parazitoloji Dergisi
Verhandlungen der InternationaleVereinigung für Theoretische und Angewandte Limnologie = Verh. Internat. Verein. Limnol.
Veröffentlichungen der Zoologischen Staatssammlung München
Vestnik zoologii
Veterinary Medical Review
Veterinary Record
Volucella
Wetlands
Wetlands Ecology and Management
Zeitschrift für Angewandte Entomologie
Zookeys
Zoologica Baetica
Zoological Journal, London

Zoological Journal of the Linnean Society
Zoological Studies
Zoologischer Anzeiger
Zoologische Mededelingen, Leiden
Zoologische Verhandelingen, Leiden
Zoologist
Zootaxa

Endpiece



In 1980, A live praying mantis (*Mantis religiosa*) was discovered amongst cargo after a flight from Dublin to London (O'Connor, J. P. and Nash, R. (1982) Further records of insects (Dictyoptera, Lepidoptera, Coleoptera, Diptera) imported into Ireland. *Ir. Nat. J.* **20**: 393-395).

Author Index

Anon. (Anonymous) is not included.

A

A. M. E. *6
Aartsen, B. van *252
Aarvik, L. *393
Abbott, P. W. *320
Abd-Rabou, S. *231
Abercrombie, J. *181
Abram, P. K. *251
Abrantes, I. *278
Ačanski, J. *187
Achterberg, C. van *251 *252 *283 *294 *295 *298
Ackland, D. M. *139 *173
Ackland, M. *151
Adkin, B. W. *320
Adkin, R. *320 *321 *322
Adler, P. *128
Adler, P. H. *173
Aebi, A. *303
Agassiz, D. *322 *323 *393
Agassiz, D. J. L. *39 *322 *323
Agnew, P. *5 *51 *139 *215 *224 *462 *480
Aguiar, C. *128
Ahmed, K. S. D. *139
Ahn, K.-J. *82
Al-Khalifa, M. S. *97
Al-Nabhan, M. *299
Al-Saffar, Z. Y. *139 *253 *495
Alard, D. *44
Alcock, N. H. *6 *51 *139 *323
Alders, K. *90
Alderson, R. *482
Aldrich, J. *139 *495
Aldrich, J. C. *253
Aldridge, R. J. W. *51
Aldwell, B. *323 *324 *397 *413
Alexander, C. P. *160
Alexander, J. B. *456 *495
Alexander, K. *51 *52 *139 *140
Alexander, K. N. A. *6 *52 *53 *65 *91 *140 *143 *144 *153 *154 *155 *157 *224 *236 *253 *324 *438 *469 *470
Alexander, S. M. D. *140 *472
Algeo, C. R. *53
Allan, D. G. *53
Allan, P. B. M *324
Allen, A. A. *53 *54 *140 *324
Allen, C. W. *253 *324
Allen, D. *6 *54 *59 *224 *252 *279 *324 *325 *425 *432 *437 *495
Allen, G. W. *305
Allen, J. E. R. *325 *326
Allott, N. *23 *38 *120 *195 *217 *218 *222 *235 *465 *466 *468 *492
Almeida, E. A. B. *281
Altenhofer, E. *252
Ameri, A. *269
An, J. *315
Anamthawat-Jónsson, K. *233 *503
Anders, S. *412
Anderson, A. *6 *22 *23 *29 *36 *54 *90 *140 *171 *224 *234 *253 *277 *284 *289
Anderson, J. A. *326
Anderson, R. *6 *12 *27 *31 *33 *53 *54 *55 *56 *57 *58 *59 *60 *65 *66 *67 *68 *70 *72 *73 *81 *85 *100 *101 *103 *105 *108 *109 *112 *113 *119 *124 *130 *136 *141 *159 *180 *187 *215 *224 *238 *241 *243 *253 *254 *264 *283 *288 *324 *326 *354 *405 *438 *443 *445 *450 *456 *457 *459 *461 *463 *470 *495
Andersson, H. *141
Andersson, M. H. *148
Andrade, R. *164
Andrew, J. *254
Andrew, T. E. *214
Andrews, C. *66
Andrews, H. W. *141
Andrews, W. *224 *326
Angus, R. *224
Angus, R. B. *60
Anlaş, S. *60
"An Liaig" *495
Archer, D. M. *397
Archer, M. *254
Archer, M. E. *254
Armstrong, E. A. *6
Aroviita, J. *28 *29

Arroyo, J. *43 *131 *254
Artuso, N. *131
Asadi-Farfar, M. *313
Ashby, D. G. *45 *214
Ashby, M. *156
Ashe, P. *6 *25 *30 *33 *46 *49 *60 *61 *85 *97 *111 *131 *137 *138 *141 *142 *143 *144 *147 *151 *155 *158 *175 *184 *185 *189 *190 *191 *196 *215 *219 *224 *235 *242 *243 *254 *261 *285 *292 *293 *295 *326 *338 *393 *407 *438 *441 *461 *463 *466 *471 *475 *479 *480 *485 *495 *502 *509
Ashe, P. J. *10 *185 *186
Asher, J. *326 *367
Askew, R. *265
Askew, R. R. *254 *255 *289 *300 *304
Aspock, H. *439
Aspock, U. *439
Assing, V. *61
Assmann, T. *174
Atkinson, R. J. *301 *311
Attewell, P. *23
Attlee, H. G. *443
Aubrook, E. W. *61
Aukema, B. *224 *225 *241
Aukema, R. *224
Austen, E. E. *144
Austin, A. *7 *326
Aydoğdu, M. *255 *257
Azidah, A. A. *255

B

B., C. E. *326
B. G. *7
Baars, J.-R. *7 *8 *10 *11 *18 *26 *36 *61 *68 *77 *78 *131 *132 *144 *149 *175 *185 *215 *219 *225 *226 *230 *255 *326 *443 *444 *445 *463 *464 *465 *466 *480 *481 *485 *495 *507
Bacaro, G. *83
Bächli, G. *144
Badano, D. *150 *167
Badcock, R. M. *480
Badmin, J. S. *326
Baechli, G. *144
Bagnall, R. S. *40 *47 *131 *477 *478
Bailey, C. S. *144
Bailey, K.E. J. *326
Baker, B. R. *326
Baker, D. *436
Baker, D. B. *255
Baker, E. A. *255
Baker, G. H. *61
Baker, G. T. Bethune *327
Baker, J. J. *495
Baker, K. P. *472 *495 *496 *510
Baker, R. *7
Baker, R. A. *7 *144 *145 *443
Baker, R. R. *326
Baldock, D. W. *457
Balfour Browne Club *61
Balfour Browne, F. *61 *62
Balfour-Browne, F. *7 *443
Ball, R. *62 *225
Ball, S. *203 *204 *205
Balletto, E. *148 *327
Bankes, E. R. *327
Bannon, E. *7 *62 *131 *145 *225 *496
Bantock, T. *156
Bantock, T. M. *225
Baquero, E. *133 *255
Barbero, F. *327
Barbiero, R. P. *28 *180 *467
Barclay, M. V. L. *89
Barendregt, A. *145
Baring, C. *327
Barker, -. *327
Barkham, P. *327
Barlas, M. *210
Barlee, J. S. *62
Barnard, P. *480.
Barnard, P. C. *7 *439 *480 *489
Barnes, D. K. A. *147 *198
Barnes, H. F. *145 *496
Barnett, G. *255
Barnett, R. J. *327
Baroni Urbani, C. *255
Barr, B. *197 *303
Barraclough, W. *327
Barratt, B. I. *255
Barratt, B. I. P. *272
Barrett, C. G. *327 *328
Barrett, C. J. *62
Barrett, K. E. J. *255 *263

Barrington, R. *328
Barrington, R. D. G. *328 *329 *398 *427
Barrington, R. D. J. *351
Barrington, R. M. *145 *255 *256 *329
Barron, S. *329
Barry, C. *225
Barry, P. J. *506
Barstad, T.-E. *282
Barták, M. *176
Barth, S. *263
Bartlett, C. R. *225
Basden, E. B. *145
Baskerville, N. *211 *512
Bass, J. *145
Bass, J. A. B. *159
Bateman, P. L. G. *7
Bater, J. E. *66
Bates, R. *22 *90 *171 *233 *447 *484
Bath, W. Harcourt *329
Bathe, E. C. *448
Batley, J. *87
Battersby, F. I. *329
Battersby, F. J. *329
Battersby, W. G. *329
Batty, P. *443
Bauernfeind, E. *215
Baur, H. *253 *293
Baxter, J. T. *496
Bayliss, R. A. *7 *145
Baynes, E. S. A. *7 *8 *256 *329 *330 *331 *443 *480
Baz, A. *470
Beare, T. Hudson *62
Beaucournu, J. C. *472
Beaudin, M. *269
Beaumont, A. *439
Beaumont, D. A. *66
Beaumont, H. E. *145 *331
Beavan, S. D. *323 *331 *381
Becerra Jurado, G. *8 *63
Becerra-Jurado, G. *8 *63
Becerra, R. G. *269
Beckmann, B. C. *462
Bedwell, E. C. *225
Bees, Wasps, and Ants Recording Society *256
Beeson, J. *63
Beeson, M. *63
Begg, T. *303
Behan, M. *63 *121 *145 *196 *511
Beilman, D. W. *194
Beirne, B. P. *8 *9 *38 *63 *145 *225 *256 *331 *332 *333 *411 *480 *496
Belgers, J. D. M. *472
Bell, A. C. *59 *225 *496
Bell, J. *408
Bellido, D. *311
Bellstedt, R. *79
Belokobylskij, S. *269 *283 *298
Belokobylskij, S. A. *269 *298
Belshaw, R. *146
Benedicty, Z. K. *247
Benham, B. R. *63
Benington, A. *333
Bennett, F. D. *261
Bennis, E. H. *63 *333
Benson, R. B. *256 *257
Beran, L. *236
Berg, C. O. *148 *176
Berg, C. W. *9 *146
Berg, M. P. *44 *131
Bergsten, J. *63
Bermingham, N. *66
Bernasconi, C. *257
Berrow, S. D. *91
Berté, S. B. *146 *480
Berthelemy, C. *63
Bertrand, C. *413
Bevan, P. *311
Bewley, E. T. *333
Bewley, F. *63
Beyarslan, A. *255 *257 *268
Bibby, T. J. *333
Bicknell, P. *333
Biederman, R. *249
Biggane, S. S. *18 *165
Biggs, S. *9
Billups, T. R. *146
Bilton, D. *63 *79
Bilton, D. T. *63 *64 *81 *100 *110
Bilyj, B. *146
Bingham, J. F. W. *174
Bingham, J. N. *333
Bingham, R. W. *333
Birchall, E. *64 *333 *334
Bird, S. *335 *411
Birks, H. J. B. *213

Bissett, B. *148
Bistline-East, A. *146
Black, T. B. *460
Blackburn, J. H. *45 *130 *214 *223 *251 *443 *456 *469 *494
Blackburn, T. *64
Blacker, N. C. *257
Blackith, R. *64 *146 *257
Blackith, R. E. *9 *47 *48 *64 *131 *144 *146 *147 *205 *211 *257 *335 *457 *458
Blackith, R. M. *9 *64 *131 *146 *147 *178 *205 *211 *241 *257 *335
Blacklocke, S. *18 *77 *165 *217 *464 *483
Blackman, R. L. *225
Blackshaw, E. P. *335
Blackshaw, R. P. *28 *64 *147 *160 *180 *239 *400 *478 *496 *497 *498 *501 *504 *506
Blackwood, G. G. *443
Blair, K. G. *64 *147 *257
Bland, K. P. *147 *273 *282 *335 *363
Blank, S. M. *257 *282 *312
Bleasdale, A. *130
Blenkarn, S. *64
Blokland, T. J. *335
Bloxham, M. *36 *118 *244 *300
Boelens, R. *239
Boer, P. *275
Boevé, J.-L *282
Boland, R. *9 *64
Bolger, T. *9 *13 *15 *36 *44 *47 *64 *65 *70 *73 *118 *128 *131 *132 *133 *134 *135 *136 *147 *160 *178 *216 *254 *457 *482
Bolton, B. *257 *268
Bonada, N. *45 *130 *214 *223 *469 *487 *494
Bonaparte-Wyse, L. H. *9 *10 *23 *65 *92 *93 *257 *335
Bond, F. *335
Bond, K. *336 *387 *405 *408 *413 *435
Bond, K. G. M. *33 *46 *49 *65 *111 *138 *147 *189 *198 *242 *258 *293 *325 *336 *337 *338 *343 *344 *349 *361 *388 *407 *425 *431 *441 *443 *457 *461 *471 *475 *479 *489 *509
Bonelli, S. *148 *327
Bonte, D. *248
Boon, P. J. *480
Boorman, J. *148
Booth, R. *65
Booth, R. G. *65 *116
Boots, B. *258
Borkent, A. *148
Boston, M. *30 *258 *270 *287
Boston, M. R. *258 *293 *460
Botosaneanu, L. *480
Bouček, Z. *258 *294
Bouchard, P. *338
Boudot, J.-P. *444
Boudreault, C. *269
Boulanger, G. *128
Boumans, L. *148
Bourke, D. *10 *65 *148 *258
Bourke, K. *10 *45
Bourke, S. *129
Bourn, N. *409
Bourn, N. A. D. *412
Bouskell, F. *10 *65 *338
Bouwman, J. *425
Bowater, W. *339
Bowden, S. R. *339
Bowdrey, J. *225 *258 *271
Bowdrey, J. P. *33 *65 *111 *190 *207 *242 *293 *306 *408
Bowes, A. J. L. *339
Bowles, N. *339 *354
Bowman, J. *43
Bowman, J. J. *27
Box, J. A. *258
Boxshall, M. *20 *85 *370 *439
Boyd, A. W. *339
Boyd, T. *339 *404 *431
Boyd, T. D. *339
Boylan, F. *17 *502
Boyle, K. *10 *65 *148 *339
Boyle, M. P. *513
Bracken, J. *10 *25 *66 *97 *148 *175 *215 *217 *219 *235 *393 *463 *465 *466 *481 *485
Bracken, J. J. *9 *12 *15 *25 *33 *34 *43 *73 *97 *112 *126 *148 *156 *160 *175 *190 *191 *215 *216 *219 *221 *222 *225 *242 *243

Bracken, J. J. (cont.)*442 *452 *463 *467 *468 *469 *481 *482 *485 *489 *492
Bradford, E. *421
Bradford, E. S. *421
Bradish, S. *31 *66
Bradley, C. *18 *25 *26 *29 *77 *97 *126 *134 *165 *175 *217 *219 *220 *230 *235 *281 *393 *439 *440 *445 *447 *464 *466 *483 *485
Bradley, C. M. *10
Bradley, J. D. *18 *339 *401
Bradshaw, R. H. W. *44
Brady, J. J. *182
Brakefield, P. M. *326
Brandmayr, P. *98
Brandmayr, T. Z. *98
Branson, A. *445
Bratt, A. D. *148
Bratton, J. H. *64 *81
Brauns, M. *35 *194 *221 *492
Breathnach, S. *66
Breen, J. *12 *36 *108 *197 *225 *258 *259 *263 *271 *296 *302 *303
Breen, J. A. G. *148
Brenan, S. A. *225 *259 *340
Brendell, M. J. D. *66
Brennan, A. *132 *135
Brennan, F. *39
Brennan, M. *38 *120 *195 *217 *222 *465 *468 *492
Brereton, T. *399
Brereton, T. M. *357
Bretherton, R. F. *326 *333 *340 *341 *347
Bridge, C. *269
Brien, S. *149
Briggs, P. *428
Brightwell, R. *225
Brinck, P. *66
Brinck-Lindroth, G. *472
Brindle, A. *148
Brinkhurst, R. O. *226
Brinklow, R. K. *259
Bristow, E. *341
Bristow, J. *341 *342 *498
Britten, H. *66 *226
Broad, G. *121 *253 *259 *260 *265 *268 *271 *282 *284 *294 *302
Broad, G. R. *253 *255 *260 *269 *289
Brock, J. P. *260
Brock, P. D. *10 *109
Brodin, Y. *148
Brook, S. *356
Brooke, S. *226
Brooke, W. M. A. *10 *342
Brooks, D. R. *66
Brooks, J. *342
Brooks, S. *444
Brooks, S. J. *211 *213 *444
Brophy, J. *481
Brophy, J. T. *59 *481 *483
Brown, A. *66 *110 *188
Brown, A. G. *66
Brown, B. V. *148
Brown, D. *342
Brown, D. C. G. *342
Brown, E. *457
Brown, E. S. *226 *457
Brown, E. W. *342
Brown, H. Rowland *342
Brown, J. J. *10
Brown, M. *260
Brown, M. J. F. *205 *263 *271 *284 *287 *302 *312
Brown, N. E. *148 *166
Brown, P. *120
Brown, P. M. J. *120 *121
Brown, S. C. S. *342
Brown, V. K. *457
Brown, V. M. *463
Browne, D. E. *126
Browne, J. M. *66
Browne, K. A. *277
Bruce, B. *342
Bruen, M. *18 *77 *165 *217 *464 *483
Bruford, M. W. *223
Brunker, J. P. *10 *11 *42 *66 *260 *342 *423
Brunnetti, E. *148
Brunt, A. *43 *312
Brunton, L. *66
Brunton, T. *342
Bryan, G. *260
Bryan, M. *59 *66 *67 *342

Bryan, M. D. *67
Bryant, A. *489
Bryant, T. *325 *342 *343 *344 *408
Buchanan, K. *444
Buchsbaum, U. *430
Buck, F. D. *67
Buck, M. *148
Buckell, F. J. *344
Buckland, P. C. *11
Buckland, P. I. *11
Bückle, C. *231
Buckle, C. *67
Buckle, C. W. *226 *260
Buckler, W. *344
Buckley, Y. M. *38 *121 *196 *302 *416
Buckstone, A. A. W. *344
Buckton, S. *226
Buffington, M. *251
Buffington, M. L. *312
Bugter, R. *266
Buhl, P. *260
Buhl, P. N. *260 *261 *272 *293 *299
Bullock, D. J. *344
Bullock, E. *67 *68 *226
Bullock, J. A. *68 *498
Bullock, J. M. *68 *498
Bulman, C. R. *425
Burbridge, F. W. *226 *261
Burchell, -. *352
Burckhardt, D. *226
Burden, G. *211, *512
Burden, J. W. *344
Burke, D. *146
Burkmar, R. *344
Burn, J. *254
Burns, G. *344
Burns, K. *166
Burr, M. *457
Burrows, C. R. N. *344
Burton, J. F. *11, *344 *345 *457
Butler, E. A. *226 *261
Butler, F. *34 *113 *129 *191 *452
Butler, F. T. *45 *46 *85 *293 *472
Butler, P. M. *34 *509
Butterfly Conservation Northern Ireland *345
Bygebjerg, R. *192
Byrne, A. *261 *271 *287
Byrne, B. *457
Byrne, C. *11 *226 *241
Byrne, C. F. *220
Byrne, R. A. *11 *148 *345 *468 *481
Bytinski-Salz, H. *345

C

Cabot, D. *11 *45
Caffrey, J. M. *61 *105 *495
Cahalane, G. *60
Caleca, V. *313
Callanan, M.*8 *9 *11 *68 *132 *149 *215 *226 *444 *463 *481
Çalmaşur, Ö. *297 *409
Calvin, M. D. P. I. *299
Cambell, R. N. *217
Cameron, A. *59 *60 *68 *103
Cameron, M. *68
Cameron, P. *262
Campbell, D. C. *345
Campbell, J. L. *345
Campbell, W. H. *345
Canbulat, S. *98
Canning, S. *345
Canterino, S. *148
Capurro, M. *48
Car, M. *149
Carden, R. F. *168
Cardew, P. A. *345
Carey, J. *139
Carey, J. G. J. *149 *179
Carlin, C. M. *483
Carlisle, R. W. *11 *472 *476
Carlsson, J. *11 *68 *262 *481
Carnus, T. *6 *10 *29 *54 *65 *140 *148 *224 *253 *258 *284
Caron, V. *262 *498
Caroni, R. *27 *43
Carpenter, G. D. Hale *345
Carpenter, G. H. *11 *14 *24 *39 *45 *48 *68 *69 *73 *132 *136 *149 *150 *174 *226 *227 *241 *262 *345 *346 *444 *457 *481 *498 *499
Carr, R. *60
Carrillo, J. *251
Carrington, T. J. *346
Carroll, E. *12 *262 *346
Carroll, J. *499 *500
Carroll, P. *22 *89 *170 *218 *233 *447

Carrothers, E. N. *11
Carter, A. E. J. *150
Carter, C. E. *30 *150 *181 *214 *221 *239 *487
Carter, C. I. *227
Carter, D. J. *69 *346 *444 *481
Carter, P. *87
Carty, A. H. *22 *89 *170 *218 *233 *447
Carvalho, F. *133
Casacci, L. P. *327
Casale, A. *98
Casalegno, C. *180
Caseldine, C. *110 *188
Casey, L. M. *42 *262
Casey, R. J. *143
Castella, E. *12 *41 *205 *206 *207
Castle Russell, S. G. *346
Castro, A. *120
Caswell, W. *346
Cathrine, C. *79
Catton, M. *211 *512
Cawley, M. *69 *136 *227 *262 *457
Cebeci, H. *127
CEDaR *69
Centre for Data and Environmental Recording (CEDaR) *444
Černý, M. *150
Cerretti, P. *150 *167
Çevik, I. E. *60
Chadd, R. *81
Chainey, J. E. *346
Chalmers-Hunt, J. M. *12 *69 *340 *341 *346 *347
Cham, S. *444
Chamberlain, D. *44
Chamberlain, R. *500
Chambre, N. *262
Champion, G. C. *69 *70
Chandler, D. *444
Chandler, P. *12 *150 *151
Chandler, P. J. *12 *140 *143 *144 *151 *152 *153 *154 *155 *156 *157 *160 *163 *165 *167 *174 *181 *187 *190 *205 *206 *209
Chapman, J. *408
Chapman, J. W. *66
Chapman, P. B. *349
Chapman, T. A. *347 *348
Chaster, G. W. *70
Chatelain, R. G. *348 *420
Chauzat, M.-P. *227 *244 *262
Chelmick, D. *444
Chelmick, D. G. *444
Chen, J.-X. *136
Chen, X.-x. *282
Cheney, J. *436
Cherix, D. *257
Chesney, H. C. G. *48
Chester, T. S. *473 *501
China, W. E. *227
Chinery, M. *12 *70 *136 *156 *215 *227 *262 *348 *439 *444 *457 *463 *481
Chique, C. *156
Chitty, A. J. *262
Choiseul, J. *510
Chvala, M. *156 *199
Çikman, E. *315
Civelek, H. S. *315
Claassens, A. J. M. *45 *70 *156 *472 *475
Clabby, K. J. *12 *156 *215 *463 *481
Claffey, T. *12
Clancy, S. *331 *348 *352 *438
Clancy, S. P. *348 *349
Clare, N. *121
Claridge, M. F. *157 *262 *263 *274
Clark, F. L. *17 *77 *473
Clark, S. J. *66
Clarke, J. *326 *358 *391
Clarke, J. H. *348 *349
Clarke, K. *349
Clarke, R. *29
Clarke, R. O. S. *70
Classey, E. W. *12 *349
Claussen, C. *206
Clawson, S. *59 *70 *174
Clay, T. *45 *46
Clee, C. *172
Clements, D. K. *157
Clemons, L. *157
Clenaghan, C. *23 *174 *217 *218 *465 *466
Clifton, J. *349 *427
Clipson, N. *258
Clutten, W. G. *349
Cocchiglia, L. *12
Cockayne, E. A. *349 *350 *351
Cockbill, G. F. *435

Cockerell, T. D. A. *12 *263
Coe, R. L. *157
Coetzee, J. A. *495
Coffey, J. *501
Coffey, M. *263
Coffey, M. F. *263
Cogan, B. H. *157 *206 *422
Cogan, R. *111
Cole, A. J. *121
Cole, J. *305
Cole, J. H. *157 *194
Coll, J. *366
Coll, M. *65
Coll, M. T. *70
Collenette, C. L. *351
Collier, R. V. *351
Collin, J. E. *40 *157 *158
Collingwood, C. *263
Collingwood, C. A. *70 *255 *257 *263
Collins, D. W. *478
Collins, G. A. *263 *264 *351 *352 *419
Collins, R. J. *421
Colyer, C. N. *158
Connery, J. *97 *131 *134 *175 *231 *236 *273 *281 *393 *440 *505
Connolly, B. *216
Connolly, J. *36
Convery, N. *211 *512
Conway, T. *16 *76 *172 *235 *387 *478 *504
Cook, L. M. *358
Cook, M. *436
Cook, R. R. *348 *351 *391
Cooke, B. *481
Cooke, D. *38 *120 *195 *217 *222 *457 *465 *468 *492
Cooke, N. *352
Cooney, T. *12 *262 *346
Cooper, B. A. *349 *352
Cooper, F. *352
Coote, L. *34 *113 *191 *452
Cooter, J. *70
Copeland, R. B. *12 *264 *352 *500
Copeman, J. L. *352
Copland, A. S. *364
Corbet, P. S. *444
Corbet, S. A. *299
Corbett, S. J. *66
Cordeux, J. *352
Corke, D. *352
Corley, M. F. V. *335 *363
Cornett, J. *156
Cornwell, P. B. *458
Correction (to Cuthbert, H. G. 1893) *264
Corrigendum *203 *227 *261 *318 *331 *479
Corson, T. H. *499
Coruh, S. *264
Corver, S. C. *352
Cosgrave, E. M. *352
Coşkuncu, K. S. *71
Costello, M. J. *25 *27 *179 *216 *220 *463 *467 *486
Cotton, D. *71 *227 *264 *271
Cotton, D. C. F. *13 *43 *71 *136 *158 *248 *264 *352 *444 *445 *452 *458 *493
Cotton, R. F. *264
Coulter, G. *352
Courtney, R. *12
Cowan, C. F. *12
Cox, M. L. *71 *89 *104
Coxon, C. E. *39 *122 *197 *418 *455
Coxon, P. *71
Coyle, S. *217 *465
Cragg, J. B. *463
Crane, E. *264
Cranston, P. S. *142 *158 *159 *193
Craske, J. C. B. *352
Crawford, W. M. *71 *72 *227 *353
Crawley, M. J. *295 *303
Craze, P. *269
Creamer, R. *133
Crellin, S. *159
Crewe, H. H. *353
Crewe, H. Harpur *354
Cribb, P. W. *354
Crichton, M. *354
Crisp, D. T. *72 *227 *463
Crofts, S. M. *481
Crolla, J. *354
Cromien, S. *354
Cronin, J. N. *198
Crook, A. C. *46
Crory, A. *12 *72 *159 *264 *279 *325 *354 *445
Cross, J. R. *227
Cross, T. *11 *68 *262 *481

Crosskey, R. W. *159 *264
Crossley, L. *211 *512
Crossley, R. *165
Crotch, G. R. *72
Crowe, G. A. *456 *495
Crowe, T. P. *43
Cruikshanks, R. *13
Cruttwell, C. T. *354
Cryer, R. *324
Cull, B. *211 *512
Cullen, C. *123
Cullen, P. *28 *180 *467
Cullinane, D. *458
Cummins, S. *13 *31 *72 *109 *221 *265 *287 *354 *405 *452 *467
Cunningham, B. *166
Cunningham, C. *13
Cuppage, L. A. *354
Cuppen, J. G. M. *228
Curran, C. H. *159
Curran, F. C. T. *159
Curry, J. *36
Curry, J. P. *9 *13 *14 *25 *36 *72 *96 *97 *118 *131 *132 *133 *135 *159 *228 *265 *504
Curtis, C. *178
Curtis, C. I. *251
Curtis, J. *14 *72 *159 *228 *265 *354 *458 *481
Curtis, T. *14 *73 *160 *228
Curtis, W. Parkinson *354
Cuthbert, H. G. *73 *160 *264 *265 *354
Cuthbert, H. J. *73
Cuthbert, H. K. G. *14 *73 *228 *265 *271 *458 *481
Cuthbertson, A. G. S. *14 *15 *73 *137 *228 *354 *355 *500 *501
Cvijanović, D. *25
Cywinska, A. *173

D

da Gama, M. M. *135
da Silva, P. M. *133
Daguerre, T. R. *73
Dahl, C. *160
Dahl, R. *160
Dakin, R. M. *355
Dale, C. W. *160 *355 *458
Dale, H. W. *160
Dale, J. C. *160
Dale-Skey, N. *265 *335
Dallimore, T. *211 *512
Dalton, H. *355
Dalton, M. *355
Daly, P. J. *15 *38 *73 *501
Damgaard, J. *228
Đan, M. *187
Dannreuther, T. *15 *355 *356 *445
Dapporto, L. *327 *357
D'Arcy, G. *15 *160 *355 *445
D'Arcy, J. N. *355
D'Arcy-Burt, S. *15 *160 *497 *501
Darcy, N. *73
Darilmaz, M. *73 *98
Darilmaz, M. C. *128
Dauber, J. *10 *65 *148 *258
Dauffy-Richard, E. *98
Dauod, H. A. *9 *15 *73 *160 *216 *482
Davey, P. *356 *409
Davies, J. *15 *160
Davies, J. H. *356
Davies, L. *48 *160 *161
Davies, M. *341
Davis, A. M. *356
Davis, D. R. *356
Davis, S. *18 *77 *165 *217 *464 *483
Davis, S. J. *15 *74 *161 *216 *482
Davis, S. R. *66
Davis, T. *356 *409 *412
Davy-Bowker, J. *45 *130 *214 *223 *251 *443 *456 *469 *489 *494
Daws, W. *356
Dawson, B. *265
Dawson, J. F. *74
Day, J. C. *161
Day, K. R. *74 *98 *228 *233 *266 *501 *503 *505
Day, M. C. *266
Day, M. F. *139
de Bello, F. *44
de Brit, B. *501
de Brit, G. *15 *266 *508
de Courcy Williams, M. *15 *74 *133 *144 *146 *161 *205 *206 *228 *229 *243 *266 *293 *306 *356 *359 *439 *458 *470 *478

de Eyto, E. *15 *16 *23 *39 *121 *135 *161 *196 *216 *218 *221 *222 *235 *463 *466 *468 *482 *492
De Jong, H. *161
De Knijf, G. *454
de la Peña, E. *248
De Lattin, G. *356
De Little, D. W. *119 *511
de Mendonça, M. C. *133
de Oude, J. E. *74
De Palma, A. *266
de Selys Longchamps, E. *445
De Worms, C. G. M. *356 *357
Deady, R. J. *161
Dean, J. D. *357
Deans, A. R. *284
Dear, J. P. *161
Deharveng, L. *136
Dekoninck, W. *98
Delaney, E. *20
Delany, M. J. *48
Delap, A. H. *266
Delap, M. *74
Delap, M. J. *357
della Giustina, W. *250
Dellicour, S. *282
Dely-Draskovits, A. *161 *171
Dempster, J. P. *333 *341
Demuth, R. P. *16 *357
den Bieman, C. F. M. *229
den Hartog, W. *197
Dennehy, E. *66
Dennis, E. B. *357 *412
Dennis, R. *357
Dennis, R. L. H. *357 *364 *367 *431
Denton, J. *74
Denton, J. S. *81
Deschka, G. *356
Desnoyers, A. *232 *503
Dettman, L. *211 *512
D'ettorre, P. *284
Deuchert, H. *393
Deville, J. St.-Cl. *74
Dewar, G. *357
Díaz, J. A. *120
Dick, J. T. A. *25 *218
Dickson, R. J. *357 *358
Dietzsch, A. C. *16 *34 *113 *161 *191 *266 *358 *452 *501
Dietzsch, C. *288
Dijkstra, K.-D. B. *445
Dillane, E. *473
Dillane, M. *16 *39 *121 *135 *161 *196 *216 *222 *463 *468 *482 *492
Diller, E. *266
Dillon, A. B. *77 *230 *502
Dillon, R. E. *358
Dimmers, W. J. *131
Dineen, G. *16 *74 *137 *161 *216 *229 *266 *358 *463 *482
Dingwall, R. D. *358
Dinnin, M. *110 *188
Dirilgen, T. *133
Disney, R. H. *148
Disney, R. H. L. *161 *162
Distant, W. L. *229
Dixon, A. F. G. *237 *505
Dobson, A. D. W. *39
Dobson, J. R. *162
Dobson, M. *468 *492
Docherty, M. *233 *503
Dockery, M. *358
Doddy, P. *109
Doğanlar, M. *266
Doğanlar, O. *266
Doherty, A. *358
Doherty, D. *16 *28 *162 *180 *216 *467 *482
Doherty, L. *241
Doherty, O. *213
Doherty, P. *36
Dolan, L. *10 *65 *148 *258
Dolédec, S. *44
Dolling, W. R. *229
Dominiak, P. *162
Donaldson, C. *358
Donaldson, G. *358
Donato, B. *357
Doncaster, L. *358
Donisthorpe, H. *16 *74 *257 *266 *267
Donisthorpe, H. St. J. *74 *75 *137 *458
Donnan, W. D. *117
Donnelly, A. *12 *262 *346 *408
Donnelly, K. *27 *43
Donnithorne, N. *162

Donohue, I. *16
Donohue, L. *25 *28 *29 *35
Donohue, L. A. *16
Donovan, C. *358 *359
Donovan, M. *501
Donovan, R. J. F. *359
Doogue, D. *75
Dorman, J. *15 *74 *133 *161 *229 *266 *356 *439 *470 *478
Dorman, J. A. *85 *86
Dorrity, C. *359
Doubleday, H. *359
Douglas, D. J. *162
Douglas, E. D. R. *75
Douglas, J. *359
Douglas, J. W. *229
Dowley, L. J. *12 *264 *352 *500
Dowling, C. *16 *75 *162 *163 *216 *229 *445 *463 *482
Dowling, D. N. *359
Downer, R. G. H. *163
Downes, J. A. *163 *359 *435
Downes, M. *99 *505
Downes, M. H. *501
Downes, S. *14 *73 *160 *228
Doyle, B. *16 *161 *216 *463 *482
Doyle, M. *36
Doyle, Ú. *46
Drake, C. M. *155 *163
Drake, M. *163 *208 *209
Dransfield, R. D. *225
Drinan, T. *445
Drinan, T. J. *16 *75 *163 *216 *229 *439 *445 *464 *482
Drost, B. *76
Drost, M. B. P. *90
Druitt, A. *359 *360
Drummond, F. A. *275
Dubs, F. *44 *128 *135
Duff, A. *76
Duff, A. G. *76
Duffy, E. *402
Duffy, K. J. *267
Duggan, E. *278 *504
Duigan, C. *38 *120 *195 *222 *245 *413 *443 *455 *462 *492
Duijkers, M. C. H. *211
Duke, M. J. *482
Dumont, P. *473 *501
Dunbar, K. *360
Duncan, J. *163
Dunleavy, J. *71 *76
Dunlop, K. M. *360
Dunlop, S. *76 *163 *267 *306 *360
Dunn, T. C. *360
Dunne, H. D. *16 *76
Dunne, J. *17 *111
Dunne, R. *38 *99 *121 *138 *163 *172 *196 *227 *242 *244 *245 *262 *302 *416 *478 *479 *501 *502 *504 *505 *511
Dunne, R. M. *229
Dursun, O. *315
Dusek, J. *163
Duvergé, P. L. *40
Dyte, C. E. *163
Dziock, F. *175

E

Eades, R. A. *267
Eagles, T. R. *17
Eagleson, R. *360
Early, J. K. *338
Easingwood, R. *255
Easterbrook, M. *360
Easton, N. T. *360
Eastop, V. F. *225 *229
Eastwood, J. E. *360
Eaton, A. E. *163 *216
Ebejer, M. *164
Ebmer, A. W. *267
Ede, F. J. *262 *498
Edelsten, H. M. *76 *360 *421
Edelsten, J. M. *360
Edgeworth, R. L. *267
Edington, J. M. *482
Editors *473
Edmunds, H. A. *267 *277
Edmunds, M. *172
Edmunds, R. *360
Eds *360
Edwards, A. R. *502
Edwards, F. W. *164
Edwards, J. *76 *230
Edwards, M. *267 *286
Edwards, T. L. *230
Edwards, R. *267 *268
Eeles, P. *360
Egan, P. A. *17 *312 *502
Ekrem, T. *164 *209

Elberg, K. *196
Elcock, R. *268
Ellerton, J. *361
Elliott, B. *145 *347 *361 *433
Elliott, J. M. *76 *216 *217 *439
Ellis, E. E. *361
Ellis, H. A. *268
Ellis, M. *436
Ellis, R. *361
Ellis, W. N. *352
Ellison, C. S. S. *361
Ellison, M. *361
Ellison, R. E. *361 *437
Elmes, G. W. *197 *303
Else, G. *268
Else, G. R. *268
Elven, H. *230
Ely, B. *268
Emary, C. *456
Emden, F. I. van *76 *164
Emmerson, M. *10 *65 *148 *258
Emmet, A. M. *326 *333 *335 *341 *347 *351 *361 *362 *363 *391
Endrestøl, A. *230
Enright, C. *364
Entwistle, P. F. *76
Erdogan, Ö. Ç. *268
Erlandsson, A. *230
Erman, O. *92
Ertunç, Ö. *174
Erzinclioglu, Z. *164
Escher, S. A. *144
Eskin, A. *315
Esselink, H. *212
Evans, G. A. *230
Evans, G. O. *97
Evans, J. *217 *465
Evans, W. F. *364
Evans-Hill, L. J. *412
Evenhuis, J. J. *300
Evenhuis, N. L. *164
Everard, A. *77 *230 *502
Eversham, B. C. *17 *445 *450 *458
Ewing, A. W. *81
Eyre, D. *364
Eyre, M. D. *77 *81

F

Fadl, A. *77 *118 *502
Fahy, E. *17 *77 *164 *165 *217 *230 *464 *482
Fahy, E. D. *470
Fahy, O. *30 *77 *108 *182 *239
Fahy, O. L. *103
Fahy, S. *142
Fairclough, R. *364
Fairley, J. *66
Fairley, J. S. *17 *18 *20 *26 *27 *40 *43 *77 *87 *98 *103 *115 *129 *165 *168 *209 *220 *231 *473 *474 *475 *476 *478 *483
Falk, S. *165 *194
Falk, S. J. *165 *209 *215 *269
Fanning, P. D. *77
Fanti, F. *82
Faris, R. C. *17 *44 *77 *269 *364 *370 *445
Farran, G. P. *17 *77 *269 *364
Farrell, E. P. *217 *465
Farrell, I. *312
Farrell, N. *18 *77
Farren, W. *364
Fassnidge, W. *364
Fattorini, S. *44
Faulkner, J. *18 *269 *364
Faulkner, J. S. *364
Fay, L. *31 *109 *221 *287 *405 *452 *467
Fealy, R. *287
Feehan, J. *82 *83 *217 *364 *473 *483
Feeley, H. *8 *26 *97 *134 *175 *219 *235 *281 *440 *447 *464 *466 *485
Feeley, H. B. *18 *21 *26 *45 *77 *78 *130 *165 *175 *214 *217 *219 *223 *230 *439 *445 *464 *465 *466 *469 *483 *485 *489 *494 *502
Feeney, A. *502
Feeney, A. M. *97 *165 *502
Feld, C. K. *44
Felipo, F. J. P. *269
Felton, J. C. *268 *269
Feltwell, J. S. E. *333
Fenwick, S. *18
Feraday, R. M. *178
Fergusson, N. D. M. *269 *293 *294
Fernandes, L. H. *133
Fernandez-Gonzalez, F. *44

Fernandez-Triana, J. *269
Ferrer, J. *78
Ferrier, S. *266
Ferrière, C. *269
Ferriss, S. E. *18
Fetherstonhaugh, S. R. *364
Fetykó, K. *247
Ffrench-Constant, R. H. *421
Fibiger, M. *348
Ficken, L. *270
Fiedler, C. *282
Field, J. *269
Finch, D. *269 *364 *502
Finch, K. *269 *502
Finlay, R. *16 *161 *216 *463 *482
Finn, J. *22 *36 *78 *90 *234 *277 *506
Finn, J. A. *19 *40 *78 *82 *100 *113 *123 *135 *138 *166 *197 *198 *231 *246 *272 *289 *305 *442
Finnegan, P. M. *78
Fischer, M. *269 *270 *272
Fisher, D. *483
Fisher, K. *18 *78 *230 *364 *445
Fisher, N. *18 *78 *133 *270 *364
Fitch, E. A. *78 *165 *270
Fittkau, E. J. *165 *185
Fitton, M. *270
Fitton, M. G. *255 *260 *270 *272 *294
Fitzgerald, A. M. *167
Fitzgerald, J. R. *270
Fitzgibbon, M. *364 *365
Fitzmaurice, P. *26
Fitzpatrick, Ú. *18 *78 *165 *227 *261 *270 *271 *287 *325 *365 *446
Fitzsimmons, A. G. *19
Fjellberg, A. *133
Flanagan, D. P. *78
Flavin, D. A. *18 *165 *483
Fleituch, T. *468 *492
Fleming, C. C. *228
Fleming, S. *365
Flemyng, W. W. *165 *271 *365
Fletcher, D. S. *18 *365 *421
Fletcher, T. Bainbrigge *365 *366
Flint, W. H. *366
Flower, R. J. *230
Flynn, C. *296 *366 *509 *510
Flynn, E. *10 *65 *148 *258
Flynn, J. A. *166 *502
Flynn, J. E. *271 *366
Fogarty, J. *271
Foley, S. *230
Fonseca, E. C. M. D'Assis *166
Fonteneau, J. *129
Foot, A. W. *19 *78 *166 *271 *446
Foot, A. Wynne *366
Foot, D. *382 *424
Foote, B. A. *148
Foote, R. H. *166
Foottit, R. G. *230
Forbes, A. C. *78 *502
Forbes, W. *366
Ford, E. B. *366 *436
Ford, T. H. *166
Forder, P. *366 *433
Fordy, M. *97
Forshage, M. *271
Forster, R. *473
Forsyth, J. *458
Forsyth, M. *465
Forsythe, I. W. N. *174
Forsythe, T. G. *78
Fortune, T. *132
Foss, P. J. *458
Foster, A. P. *53 *59 *79 *91 *153 *224 *236
Foster, G. *16 *19 *63 *74 *75 *79 *109 *118 *229 *271 *366 *367 *445
Foster, G. N. *19 *64 *79 *80 *81 *100 *109 *110 *120
Foster, S. *81 *129 *231 *512
Foster, S. P. *248 *513
Foster, W. *19 *367
Fowler, F. *367
Fowler, W. W. *81 *82
Fowles, A. P. *82
Fox, A. D. *446
Fox, D. *182 *320 *400
Fox, H. *34 *113 *191 *242 *452
Fox, R. *326 *367 *399 *412 *425
Fox-Wilson, G. *166 *502
Foy, R. H. *19
Frampton, R. E. E. *367
Franceour, A. *275
Frank, J. H. *82
Frankum, M. *166
Fraser, F. C. *367 *439 *446

Fraser, J. K. *166
Fraser, J. L. *251
Frazer, J. F. D. *367
Frazer, W. *271
Free, G. *18 *23 *27 *43 *77 *165 *217 *218 *230 *235 *439 *445 *464 *466 *483
Freeland, S. *271
Freeman, P. *157 *166
Freeman, R. B. *474
Freestone, R. *436
Freidberg, A. *179
Freke, P. E. *271 *367 *368
French, J. M. *368
French, L. *199
French, P. *121
French, R. A. *19 *368
French, V. *34 *113 *191 *452 *510
Friday, L. *82
Friday, L. E.*79 *81 *82
Frisch, J. *122
Fristy, G. E. *272
Fritch, R. *103 *231 *289
Fritch, R. A. *19 *82 *166 *231 *272
Frohawk, F. W. *368
Frost, R. *121
Frost, W. E. *19 *172 *231
Fryer, H. F. *368
Fryer, J. C. *368
Fryer, J. C. F. *368
Fukova, I. *421
Fuller, R. *44
Furlong, A. *82
Furneaux, W. S. *368
Fust, H. Jenner *368
Fusu, L. *272

G

Gadallah, N. S. *272
Gäde, G. *446
Gadge, S. W. *368
Gaedike, R. *368
Gaffney, M. *129 *512
Gaffney, M. T. *248 *513
Gahan, C. J. *82
Gale, B. *473 *501
Gallagher, C. *168
Gallagher, M. *23 *174 *218 *466
Gallagher, M. B. *23 *218 *466 *484
Galli, L. *48
Galloway, T. D. *475
Gammell, M. *483
Gammell, M. P. *483 *491
Ganley, T. *13
Garbary, D. J. *148 *166
Gärdenfors, U. *272
Gardner, A. *368
Gardner, A. E. *82 *446 *450
Gardner, D. *436
Gardner, M. G. *197 *303
Gargan, P. G. *19
Garnas, J. *275
Garner, B. H. *89
Garrett, H. E. *368
Garrido, J. *120
Garside, A. *77
Gates, M. *251
Gattolliat, J. L. *217
Gattolliat, J.-L. *198
Gauld, I. D. *270 *272 *300
Geary, M. *277
Geen, G. *436
Geering, Q. A. *45 *214
Geijzendorffer, I. *36
Geiser, M. F. *82
Gençer, L. *272 *302
Gencer, N. S. *71
Gençer, R. S. *302
Georgaki, A. *166
George, R. S. *474
Geraghty, F. *166
Gerard, B. M. *272
Gerard, P. J. *272 *284
Gerbachevskaja-Pavluchenko, A. A. *166
Gertsson, C.-A. *242
Gessner, M. O. *23
Ghahari, H. *166 *171 *231 *272 *302
Gibbs, A. E. *368
Gibbs, D. *167 *368
Gibbs, D. J. *140 *167
Gibbs, M. E. *435
Gibson, C. E. *19
Gibson, G. A. P. *272
Gibson, M. R. *369
Gilbert, P. *19
Gilchrist, W. L. R. E. *369
Gill, B. *369
Gill, D. *7
Gill, N. *348 *361

Giller, P. *35 *83 *108 *167 *199 *468 *492
Giller, P. S. *16 *19 *20 *23 *27 *30 *34 *44 *45 *74 *78 *82 *83 *86 *92 *113 *127 *130 *137 *161 *167 *174 *179 *211 *214 *216 *217 *218 *220 *222 *223 *229 *230 *231 *239 *248 *266 *272 *273 *358 *439 *446 *456 *463 *465 *466 *467 *469 *482 *483 *484 *486 *492 *493 *494
Gillespie, G. *369
Gillespie, G. W. *369
Gillham, M. C. *231
Gillingham, E. L. *211 *512
Gimingham, C. T. *82
Gioria, M. *8 *82 *83
Gisin, H. *133
Gisondi, S. *150 *167
Gittings, T. *27 *78 *83 *102 *167 *180 *199 *200 *206 *338
Giudice, G. L. *150
Glanville, E. *437
Glanville, J. *369
Glavin, H. *20
Glazebrook, W. E. *369
Gleeson, E. *413
Gleeson, M. *20 *369
Glen, D. M. *87
Goater, B. *323 *341 *349 *369
Godfray, H. *260
Godfray, H. C. J. *167 *255 *260 *273 *369
Godfrey, A. *167
Goeldlin de Tiefenau, P. *167 *206
Goetghebuer, M. *167
Goffe, E. R. *167
Golden, V. *128
Goldie-Smith, E. K. *168
Goldson, S. L. *284
Good, J. *439
Good, J. A. *20 *41 *47 *48 *83 *84 *85 *86 *87 *112 *124 *137 *168 *206 *231 *247 *273 *306 *338 *369 *370 *422 *439 *446 *455 *456 *458 *469 *489 *502 *503
Good, M. *469
Goodbody, I. M. *370
Goodey, B. *370 *427
Goodhue, D. *503
Goodhue, R. D. *458
Goodson, A. L. *370
Goodwin, J. *435
Gordon, A. W. *174
Gordon, S. *370
Gormally, M. *30 *31 *39 *77 *108 *109 *118 *121 *122 *135 *179 *182 *196 *197 *213 *222 *239 *315 *418 *455 *468 *492 *512
Gormally, M. J. *78 *87 *103 *105 *113 *115 *130 *139 *146 *149 *168 *173 *178 *179 *180 *181 *196 *208 *213
Gorodkov, K. B. *168
Goss, H. *370
Götmark, F. *175
Goto, H. E. *133
Gough, H. J. *48
Gould, P. *370
Goulson, D. *262
Govier, R. *71
Goyvaerts, P. *446
Graf, W. *487
Graham, A. *370
Graham, C. *16 *161 *216 *463 *482
Graham, D. A. *168
Graham, M. W. R. de V. *20 *258 *273 *274 *281 *295 *311 *313 *370
Graham, O. H. *503
Graham-Smith, G. S. *370
Graham-Smith, W. *370
Grainger, J. N. R. *139 *495
Grainger, J. P. *20 *87 *168 *231 *474 *478
Grandchamp, A.-C. *128
Grant, F. T. *87
Grant, J. *131
Grant, Mrs K. J. *370
Graves, P. P. *370 *371 *446
Gray, J. S. *198 *511
Gray, M. *324
Gray, N. F. *20
Grayson, A. *169
Grearson, K. J. *282
Green, D. *409
Green, E. *231
Green, J. M. *87
Green, S. V. *376
Green, W. A. *371
Greene, J. *371

Greenslade, A. F. C. *231 *503
Greenwood, J. G. *218 *231
Greer, T. *20 *274 *371 *372 *373 *374 *439
Greer Walker, M. *458
Gregson, C. S. *374 *375
Grennan, E. *503
Grennan, E. J. *503
Gresson, R. A. R. *20
Greville, R. K. *231
Grichanov, I. Y. *169
Grierson, P. H. *375
Grieve, N. J. *45 *130 *214 *223 *251 *443 *456 *469 *494
Griffin, C. T. *77 *104 *230 *366 *502 *506
Griffith, C. F. *87
Griffith, H. A. C. *274
Griffiths, G. C. D. *169 *274 *275
Grimes, M. *20
Grimshaw, P. H. *169
Groden, E. *275
Groenen, F. *375
Grogan, H. M. *512
Grosvenor, T. H. L. *375
Grundy, D. *375
Güçlü, C. *275
Guerin, P. M. *511
Guerrieri, E. *275
Guglielmino, A. *231
Guichard, K. M. *275
Guiguen, C. *472
Guinan, M. *103
Gumley, E. M. *375
Gunn, R. J. M. *45 *130 *214 *223 *251 *443 *456 *469 *494
Gunn, W. F. *232
Gunther, H. *232
Gurrea, P. *44
Gwiazdowski, R. A. *232 *503
Gwynn, A. M. *375

H

H. C. H. *20 *21
H. M. D. *169
Hackett, M. *130
Hackman, W. *169
Haden, P. *211 *512
Haelewaters, D. *275
Haenni, J.-P. *176
Haes, E. C. M. *458 *459
Haeselbarth, E. *252 *275 *276
Hagen, H. A. *440 *483
Haggett, G. *21 *375
Haggett, G. M. *21 *375
Halbert, J. N. *17 *21 *24 *26 *77 *87 *88 *95 *96 *137 *169 *218 *220 *232 *233 *269 *276 *375 *376 *440 *441 *447 *448 *459 *465 *467 *470 *483 *485
Haliday, A. H. *18 *21 *23 *88 *89 *93 *136 *169 *170 *233 *276 *375 *384 *478
Hall, K. *418
Hall, P. *376
Hall, Z. *376
Halldórsson, G. *233 *503
Halmschlager, E. *89
Halsey, J. *329
Halstead, A. *121 *282 *511
Halstead, A. J. *246 *276 *277
Hamerlík, L. *170
Hamilton, G. E. H., Barrett-. *376
Hamilton, I. *233 *376
Hamilton, J. *376
Hamiliton, W. A. *376
Hamm, A. H. *301
Hammond, C. O. *447
Hammond, H. E. *376
Hammond, M. *81
Hammond, P. M. *89 *100 *125
Hancock, E. G. *92 *170 *490
Hancock, G. *21
Hang, J. *315
Hannemann, H. J. *376
Hannigan, E. *7 *21 *22 *61 *89 *144 *170 *218 *225 *233 *376 *443 *447 *463 *480 *483 *484
Hansen, L. O. *199
Hansen, M. *89
Hansson, C. *277
Harbach, R. E. *178
Hardiman, D. *239 *397 *404
Hardiman, D. M. *404
Harding, J. *376 *413
Harding, J. M. *376
Harding, P. *326 *367
Harding, P. T. *22 *48 *89 *170 *277 *376 *458 *459 *474
Hardy, J. R. *89

Hardy, J. Ray *376
Hardy, N. B. *159
Hardy, P. B. *357 *364
Harker, G. A. *376
Harker, J. *218
Harkin, V. *166
Harley, B. *377
Harmer, A. S. *328 *377
Harper, M. W. *331 *347 *377
Harpke, A. *395
Harrington, R. *8 *22 *44 *63 *89 *170 *218 *233 *447
Harrington, T. *12
Harrington, T. J. *25 *466
Harris, J. R. *9 *22
Harris, K. M. *170
Harrison, A. *377
Harrison, J. W. Heslop *377
(see also Heslop-Harrison).
Harrison, P. A. *44
Harrison, S. *22 *100 *377 *445 *447 *506
Harrison, S. C. H. *337
Harrison, S. S. C. *16 *25 *74 *96 *137 *161 *174 *216 *229 *266 *358 *463 *482 *484
Harrison, T. D. *89
Harry, O. G. *22
Hart, A. G. *311
Hart, C. *361 *377
Hart, G. V. *377 *378
Hart, H. C. *233
Hart, W. E. *170 *277 *378
Hartley, T. *277
Harvey, M. *170
Harwood, B. S. *378
Hassall, M. *462
Hassett, J. *277
Hastings, A. *478
Hatch, C. *170 *472 *474 *503
Hatch, S. *378
Hättenschwiler, P. *378
Hatton, J. *66
Haughton, J. *90 *378 *503
Haughton, W. *90
Haukeland, S. *90 *503
Havelka, P. *170
Hawker, P. *378
Hayat, R. *166 *171
Hayes, B. P. *171
Hayes, K. *263 *402
Hayes, M. *130
Haynes, F. *356
Haynes, R. F. *379 *380 *383 *447
Hayter-Hames, J. *447
Hayward, R. *326 *410
Hazelton, M. *22 *43 *90 *133 *171 *218 *233 *465 *484
He, J.-h. *282
Head, H. W. *380
Heal, D. W. *227
Heal, H. *380
Heal, H. G. *380
Heal, J. C. G. *380
Heal, O. W. *72
Healy, B. *22 *35 *41 *47 *48 *49 *90 *116 *124 *133 *135 *138 *171 *192 *206 *221 *233 *243 *247 *306 *422 *442 *447 *453 *468 *471 *477 *479 *484 *493
Healy, M. G. *179
Hearle, S. *409
Heath, J. *233 *341 *376 *380 *413 *447
Heaver, D. *171
Heckford, R. *322
Heckford, R. J. *323 *331 *335 *347 *380 *381
Hecq, F. *10 *65 *148 *258
Hedmark, K. *175
Hedqvist, K. J. *277
Hegarty, C. A. *103
Heibo, E. *282
Heidemaa, M. *257
Heijerman, T. *90
Heiri, O. *211
Helden, A. *29 *36 *90 *171 *233 *234 *253
Helden, A. J. *6 *22 *23 *29 *54 *90 *140 *224 *234 *253 *277 *284
Heller, K. *172
Hellins, J. *381 *382
Hemming, Mrs *382
Hemming, R. *436
Henderson, A. E. *180
Heneghan, L. *70 *131 *133 *171
Henegouwen, A. van Berge *90
Henle, K. *44
Hennig, W. *171
Henry, C. *171

Henry, P.-Y. *181
Hensle, J. *430
Henwood, B. *382
Henwood, B. P. *382 *424
Herbert, I. J. *382
Hermes, D. *241
Hermes, D. J. *224
Hernan, R. *217 *465
Hernando, C. *120
Heron, A. M. R. *382
Herting, B. *171
Hesami, A. *285
Heslop-Harrison, J. W. *23 *277 *382
(see also Harrison, J. W. Heslop).
Hewetson, A. *447
Hewett, G. *382
Hewitt, J. O. *499
Hewitt, T. R. *150 *171 *499
Heyworth, M. F. *90
Hickin, N. *382
Hickin, N. E. *91 *484
Higginbottom, T. *33 *111 *190 *242 *293 *408
Higgins, D. G. *48 *49
Higgins, L. *73 *382
Higgins, L. G. *382
Higgott, J. B. *382
Hildrew, A. G. *482
Hiley, P. D. *484
Hill, A. R. *234
Hill, D. S. *171
Hill, E. *277
Hill, J. K. *399
Hill, L. *382 *412 *428
Hill, M. P. *495
Hill, P. *383
Hill, P. M. *383
Hillis, J. P. *379 *380 *383 *447
Hillis, P. *383
Hincks, W. D. *137 *277 *459
Hind, N. S. *383
Hinz, R. *277
Hippa, H. *172
Hladyz, S. *23 *468 *486 *492
Hoare, D. *409
Hobby, B. M. *172 *345 *447
Hobby, D. M. *345
Hockin, D. C. *159 *383
Hodge, P. *59
Hodge, P. J. *81 *90 *91 *276
Hodge, S. *139
Hodgers, D. *436
Hodgkinson, J. B. *383
Hodgson, S. B. *383
Hodkinson, I. D. *235
Hoek, W. Z. *211
Hoelmer, K. *312
Hoffmeyer, S. *383
Hogan, A. R. *23 *91 *383 *384
Hogan, J. *25 *126 *235 *280 *504
Holland, C. *30 *221 *239 *474
Holland, D. G. *91
Hollis, D. *235
Holmes, J. M. C. *293
Holzel, H. *439
Hope-Cawdery, M. J. *172
Hopkin, S. P. *133
Hopkins, G. H. E. *474
Hopkins, G. W. *235 *250
Horgan, F. G. *91
Horstmann, K. *277 *278 *304 *305
Hoskins, A. J. *266
Hourihane, J. O. *278 *504
Hourrigan, J. L. *503
Houston, W. W. K. *91
Howard, J. J. *117 *511
Howard, R. *370 *384
Howard, T. M. *159
Howarth, B. *172
Howarth, S. *436
Howarth, T. G. *384
Howe, E. A. *172
Howe, M. A. *172
Hoy, S. *23
Hubble, D. *91
Huber, J. T. *278
Huddleston, T. *278
Huemer, P. *335 *384 *393 *419
Hueppelsheuser, T. *251
Huggert, L. *278
Huggins, H. C. *23 *91 *92 *172 *384 *385 *386
Hughes, J. *23
Hughes, M. *6 *54 *224 *252 *324 *325 *387 *404 *405 *437
Hume, H. *86 *172 *504
Hume, H. D. *172 *235 *387 *478 *504
Hume, K. D. *183
Humpesch, U. H. *216 *217

Humphreys, H. N. *387
Humphreys, I. *59
Humphries, C. F. *23 *167 *172
Hunter, C. *38 *120 *195 *222 *468 *492
Hunter, J. *387
Hunter, J. M. *304
Hunter, S. A. *46
Hunter, T. *278
Huo, S. *172
Hürka, K. *172
Hurst, G. W. *368
Hutchins, D. *92
Hutchinson, E. S. *387
Hutchinson, G. E. *235 *387
Hutchison, M. *172 *504
Hutson, A. M. *172 *173
Hutton, S. A. *92 *123
Hyatt, K. H. *92 *447
Hynes, H. B. N. *465 *466
Hynes, T. *173

I

Idar, M. *278
Ienistea, M. A. *92
Iline, I. I. *118 *299 *511
Illies, J. *92 *466
Ilmonen, J. *173
Imms, A. D. *173
Inanc, F. *257
Incekara, U. *92 *102 *128
Ingrisch, S. *46
Inskipp, T. P. *18
InvertebrateIreland Online *23 *92 *218 *387 *440 *447 *466 *484
Ir. Nat. J. *46
Iranipour, S. *272
Iremonger, S. *199
Irish Biogeographical Society *173 *440
Irvine, K. *16 *23 *25 *27 *28 *29 *35 *43 *194 *218 *221 *235 *466 *492
Irwin, A. *387
Irwin, A. G. *23 *92 *173 *187 *206 *470
Irwin, S. *34 *113 *191 *452 *510
Iserbyt, I. *300
Ismay, J. W. *165 *173 *174 *190
Isaac, N. J. B. *311
Ivitis, E. *135
Ivits, E. *128
Izquierdo, A. *120

J

Jäch, M. A. *92 *120
Jackson, F. W. J. *387
Jackson, A. *16
Jackson, G. *387
Jackson, R. A. *387
Jackson, R. B. *174
Jackson, Z. *194
Jacob, M. *376
Jacobs, H.-J. *282
Jacobs, S. N. A. *387
Jagers op Akkerhuis, G. J. A. M. *86
James, R. *178
Jameson, H. L. *23 *92 *278 *387
Jameson, W. E. *92
Jansen, E. *282
Jansen, M. *235
Janson, E. W. *92
Janson, O. E. *23 *92 *93 *387
Japoshvili, G. *278
Japoshvili, G. O. *278
Jarman, A. *282
Jarrold, L. *211 *512
Jarvis, C. MacKechnie *93
(also MacKechnie-Jarvis, C.)
Jarvis, F. V. L. *23
Jaskuła, R. *93
Jeffares, M. *388
Jeffcoate, G. *326 *367
Jeffcoate, S. *326 *367
Jefferson, R. G. *504
Jeffrey, R. *31 *109 *221 *287 *405 *452 *467
Jenkins, A. *351 *388
Jenkins, R. A. *484
Jenkinson, F. *174
Jenner, M. *267
Jennings, A. *278 *504
Jennings, E. *16 *161 *216 *463 *482
Jennings, M. T. *278
Jennings, S. A. *278
Jensen, P. B. *278
Jepson, J. E. *440
Jervis, M. A. *174
Jess, S. *23 *43 *174 *210 *279 *312 *511
Jessop, L. *89 *93

Jezek, J. *174
Johnson, A. C. *388
Johnson, C. *93
Johnson, C. F. *388
Johnson, J. *8 *96
Johnson, J. C. *504
Johnson, J. H. *388
Johnson, M. *23 *174 *218 *466
Johnson, M. J. *23 *218 *466 *484
Johnson, N. F. *279
Johnson, R. *44
Johnson, W. F. *17 *24 *49 *77 *93 *94 *95 *96 *174 *218 *235 *269 *279 *280 *287 *388 *389 *390 *440 *447 *459 *466 *484 *504
Johnston, J. H. *390 *447
Johnston, P. *24
Johnston, W. H. *390
Jonaitis, V. *280
Jones, A. M. *96 *390 *391
Jones, B. *391
Jones, G. *344
Jones, H. B. *391
Jones, M. *123
Jones, P. *198
Jones, R. A. *25 *96
Jordana, R. *133 *255
Jordon, R. C. R. *391
Joy, N. H. *96 *126
Judd, S. *235
Jupp, A. *436
Jurado, G. B. *96
Jurca, T. *25 *28 *29 *35
Jussila, R. *280

K

Kaila, L. *391
Kalkman, V. J. *444
Kamata, N. *232 *503
Kane, A. *129 *391
Kane, W. F. de V. *25 *174 *280 *391 *392 *393
Kanvil, S. *235 *504
Kappel, A. W. *393
Kapranas, A. *104 *506
Karaca, H. *102
Karp, A. *87
Karsholt, O. *393
Kasparyan, D. R. *280 *305
Kaufmann, R. R. U. *96
Kauri, H. *174
Kavanagh, B. *241
Kavanagh, K. *104 *506
Kaydan, M. B. *247
Kaye, W. J. *393
Kazanci, N. *174
Keady, S. *34 *113 *191 *452
Keane, M. *25 *44 *129 *213 *235 *249 *280 *314 *431 *504 *513
Keane, T. W. L. *393
Kearney, A. *504
Kearns, C. *23
Keating, A. *135
Kehlmaier, C. *174
Keiding, J. *175 *504
Keil, P. *175
Keith, A. M. *258
Kell, G. V. *15 *504
Kelly, A.-M. *15 *74 *161 *216 *482
Kelly, D. L. *34 *113 *191 *199 *452
Kelly, D. W. *25 *218
Kelly, J. *510
Kelly, K. S. *25
Kelly, M. *13 *221 *364 *468
Kelly, M. T. *25 *96 *97 *133 *504
Kelly, R. J. *97
Kelly, S. *31 *109 *221 *287 *405 *452 *467
Kelly, T. *108 *167 *199
Kelly, T. C. *25 *27 *30 *34 *102 *113 *180 *191 *221 *239 *452 *473 *474 *476 *510
Kelly-Quinn, M. *7 *8 *9 *10 *11 *12 *13 *15 *18 *19 *21 *22 *25 *26 *28 *29 *36 *40 *43 *61 *63 *68 *74 *77 *78 *82 *89 *96 *97 *126 *132 *134 *144 *149 *161 *165 *167 *170 *175 *210 *215 *216 *217 *218 *219 *220 *222 *223 *225 *226 *230 *231 *233 *235 *272 *281 *284 *376 *393 *439 *440 *443 *444 *446 *447 *463 *464 *465 *466 *467 *469 *480 *481 *482 *483 *484 *485 *502
Kemp, R. *393
Kemp, S. *393
Kemp, S. W. *97 *235 *448
Kennedy, B. *18 *77 *165 *217 *230 *439 *445 *464 *483

Kennedy, M. *26
Kennedy, N. *43
Kennedy, P. G. *23
Kennedy, T. *36 *231 *273
Kennedy, T. F. *26 *97 *108 *131 *134 *175 *235 *236 *281 *393 *440 *504 *505 *508
Kenny, J. *131
Kenny, J. E. *505 *512
Kenrick, G. H. *393
Keohane, J. *22 *89 *170 *218 *233 *447
Keown, P. *398
Kerrich, G. J. *258 *269 *281
Kersey, L. W. *10
Kershaw, S. H. *394
Kettle, D. S. *163
Kettlewell, H. B. D. *394
Kevan, D. K. *97
Kevan, D. K. McE. *459
Kew, H. W. *26
Khalaim, A. I. *175 *281
Khoramabadi, A. M. *312
Khrokalo, L. A. *212
Kibichii, S. *26 *175 *219 *466 *485
Kidd, L. N. *173 *485
Kiely, G. K. *217 *465
Kilbane, T. *16 *161 *216 *463 *482
Killington, F. J. *440 *441 *448
Kim, K. C. *187
Kimmins, D. E. *219 *441 *466 *485
Kimmins, J. E. *441
Kinahan, A. *175
Kinahan, J. R. *62 *97 *394 *505
King, J. *28 *180 *467
King, J. J. *26 *34
King, J. J. F. X. *26 *175 *219 *220 *394 *441 *448 *466 *467 *470 *485
King, N. *16 *161 *216 *463 *482
King, P. E. *97
Kingston, N. *31 *109 *221 *287 *405 *452 *467
Kinsella, A. *29 *253
Kirby, P. *236 *440
Kirby, W. E. *393
Kirby, W. F. *394
Kirk, A. A. *281
Kirk-Spriggs, A. H. *98
Kirkaldy, G. W. *236 *394
Kirwan, L. *6 *36 *113
Kitchin, V. P. *394
Kiyak, S. *73 *98
Kjærandsen, J. *175
Klima, F. *486
Klimaszewski, J. *101
Kment, P. *236
Knaggs, H. G. *394
Knight, G. *282
Knight, G. T. *281 *282
Knight, L. R. F. D. *26 *98 *134 *175 *220 *467 *486
Knight, M. E. *307
Knill-Jones, R. *394
Knill-Jones, S. A. *394
Knutson, L. *178 *180 *181 *196 *208 *213
Knutson, L. V. *148 *176 *179 *180 *206 *208 *213
Kocak, E. *272 *302
Koivula, M. *98 *128
Kolaj, A. *395
Kolarov, J. *264 *281
Koliopoulos, G. *178
Komzáková, O. *176
Konigsmann, E. *281
Kopke, K. *34 *113 *191 *452
Korss, Z. *44
Koryszko, J. *98
Kotze, D. J. *128
Kotze, J. *98
Kovalev, V. G. *156 *176
Kozár, F. *247
Kramer, J. *176
Kramp, K. *299
Krivosheina, N. P. *176 *179
Krombein, K. V. *281
Kubátová-Hiršová, H. *180
Kuchlein, J. H. *395
Kudrna, O. *395
Kuhlmann, M. *266 *281
Kula, R. *251
Kurina, O. *175
Kutuk, M. *176
Kvamme, T. *23
Kyne, M. J. *98

L

Lubbock, J. *49 *134
Labouchere, F. A. *395

Ladner, C. *89
Lafferty, H. A. *236 *505
Laide, L. *281
Laing, F. *236
Lally, H. *28 *467
Lambert, A. *395
Lambert, M. R. K. *134
Lampe, K.-H. *46
Lane, R. P. *166
Lane, S. *98
Langdon, P. *110 *188
Langham, C. *98 *178 *395 *448
Langham, J. *395
Langley, R. *26 *98 *474
Langmaid, J. *322 *363
Langmaid, J. R. *323 *335 *363 *381 *395 *396
Langton, P. H. *176 *177 *178 *185 *396 *490
Lansbury, I. *26 *98 *178 *236 *396
Larsen, D. L. *473 *501
Laska, P. *163
Last, H. *98
Last, H. R. *98
Lastovka, P. *169
Laštůvka, A. *430
Laštůvka, Z. *430
Latibari, H. L. *281
Launay, H. *472
Laurence, B. R. *161 *178
Laurenne, N. *281
Lauterer, P. *226
Lavelle, P. *44
Lavery, D. *397
Lavery, D. B. *396
Lavery, J. *396
Lavery, J. W. *35 *116 *281 *396 *397 *408 *409 *453 *461
Lavery, T. *12
Lavery, T. A. *26 *178 *206 *380 *397 *448 *467
Lavigne, R. *171
Lavorel, S. *44
Lawless, E. *397
Lawrence, P. N. *133 *134
Lawson, A. K. *98
Lawson, S. A. *192 *243 *510
Lawton, J. H. *178
Le Quesne, W. J. *236 *237
Leach, S. *181
Lear, N. W. *326
Leather, S. R. *98 *237 *505
Leblanc, H. N. *194
Lechthaler, W. *149
Leclercq, J. *282
Lecocq, T. *282
Lee, A. S. *178
Leech, J. H. *282
Leech, M. J. *26
Leeds, -. *397
Lees, E. *397
Legrand, J. *42 *206 *247 *306 *442 *456
Leinhard, C. *470
Leman, G. C. *99
Lempke, B. J. *397
Lencina, J. L. *128
Lennon, L. *397
Leonard, K. *119 *413
Leonhardt, K. G. *178
LeRoy, M. *149
Lesage, L. *101
Leston, D. *237 *246
Lett, H. W. *398
Letts, J. *123
Levey, B. *99
Levinge, N. V. *398
Levy, D. A. *207
Lewcock, G. A. *99
Lewington, R. *269 *425 *426 *445
Lewis, M. *251
Leyvastre, A. *103
Lhomme, P. *282
Li, T. *282
Li, Y. *282
Lienhard, C. *470
Lightfoot, G. *398
Lindroth, C. H. *99
Lindsay, W. *178
Lindsey, W. *172
Linnane, S. M. *45
Linnie, M. *86
Linnie, M. J. *99 *505
Linton, Y.-M. *178
Lipscomb, C. G. *398
Lisney, A. A. *26 *333 *398
Liston, A. *282
Liston, A. D. *257 *282 *293 *299 *305 *312 *313
Little, B. *282

Little, D. *28 *134 *178
Little, R. *18 *27 *43 *77 *165 *217 *230 *439 *445 *464 *465 *483
Littlewood, N. A. *398
Liu, J.-X. *282
Livermore, L. *259 *260 *265
Lloyd, R. W. *70 *99
Lock, B. *398
Lockhart, N. *31 *109 *221 *287 *405 *452 *467
Logunov, D. V. *358
Lola-Luz, T. *90 *99 *503 *505
Lole, M. J. *194
Long, M. *27 *99 *398
Long, M. P. *59
Long, R. *351
Longfield, C. *282 *398 *444 *448
Longfield, C. E. *448
Lonsdale, D. *448
Lønnve, O. *282
Looker, I. E. *351
Lorimer, R. I. *341
Lott, D. *79 *99
Lott, D. A. *64 *77 *81 *99 *100
Loughnane, J. B. *505 *506
Lovatt, J. K. *413
Love, D. E. *179
Lovei, G. *98
Low, A. M. *179
Low, G. E. *398
Low, N. *398
Low, P. *398
Lowe, N. *436
Loye, S. *43 *312
Lozan, A. *283
Lozano, J.-M. *168
Lucas, G. E. *398
Lucas, W. J. *137 *448 *459
Lucey, J. *27 *100 *179 *220 *467 *486
Luckens, C. J. *398
Lucy, F. *27 *179 *220 *467 *486
Lucy, F. E. *506
Luff, M. L. *60 *91 *100 *124 *283
Lukkari, T. *135
Lund, J. W. G. *220 *237
Lush, M. J. *283
Lutz, A. F. *211
Lux, K. *395
Lyle, G. T. *283
Lynch, Á. B. *27
Lynch, J. M. *220
Lyne, J. E. *398
Lyneborg, L. *179
Lyon, F. H. *398
Lyon, S. *232 *503
Lyons, R. *215
Lysaght, D. *398
Lysaght, L. *9 *18 *78 *100 *271 *365 *399 *446 *510
Lyszkowski, R. M. *195

M

M'Weeny, E. J. *179
Ma, L. *283
Macadam, C. R. *217
Macan, T. T. *217 *220 *231 *237
MacDonald, R. *10 *27
Macfadyen, A. *27
MacGowan, I. *100 *179
MacIvor, J. C. *101
Mackauer, M. *283
MacKechnie-Jarvis, C. *100 *102
MacKenzie, R. F. *28 *102 *284 *400 *506
Mackie, C. A. *382
MacLonnreactaigh, C. O. *364
MacMahon, C. *399
Macneil, C. *25
MacNeill, N. *237 *238 *446 *449 *450
MacSwaine, J. B. S. *283
Macve, W. E. *283
Madden, B. *42
Madden, D. *100 *103 *506
Madden, G. C. B. *399
Maddison, D. R. *101
Magurran, A. *179
Magurran, A. E. *399
Maher, C. *179 *208 *213
Maher, C. A. *179
Mayhew, P. *27
Maibach, A. *167
Maican, S. *101
Main, H. *377 *399
Majerus, M. E. N. *101 *120 *399
Majka, C. G. *101
Makarkin, V. N. *441
Maki, A. *29 *284
Maki, A. M. *27 *101 *179 *238 *399

Makings, P. *49 *179 *238 *283
Malcomson, W. *399
Malicky, H. *480 *487
Malloch, G.*129 *512
Malloch, G. L. *248 *513
Malmqvist, B. *173 *486
Malone, E. *179
Malumphy, C. *101 *238 *242 *246 *283 *459
Mamaev, B. M. *176 *179
Manders, N. *399
Mangan, A. *101
Mangan, R. *22 *89 *129 *170 *218 *233 *248 *484 *512 *513
Manger, R. *180
Manley, C. *399
Mann, D. J. *49 *130
Mansbridge, W. *399
Mantell, A. *6 *27 *60 *101 *136 *141 *180 *224 *238 *254 *283 *326 *443 *450 *459
Marco, H. G. *446
Marcon, J. *399
Marcon, J. N. *399
Marcos-García, M. A. *180
Marković, Z. *220
Marks, R. J. *180
Markus, J. *128
Marnell, F. *31 *38 *41 *101 *109 *120 *124 *195 *206 *221 *222 *245 *247 *287 *306 *405 *413 *422 *443 *452 *455 *456 *462 *467 *469 *492
Marsden, H. *399
Marshall, G. A. K. *101
Marshall, J. A. *459
Marshall, J. E. *89 *486
Marshall, J. F. *180
Marshall, T. A. *238 *283 *284
Mart, A. *92 *102
Martay, B. *27
Marten, A. *180
Martin, G. *495
Martin, J. H. *238 *506
Martin, J. S. *27
Martin, R. *27 *102 *180
Martin, R. D. *34 *102 *113 *191 *452
Martin, S. J. *182 *507
Martinez, M. *124
Martinovsky, J. *180
Martins da Silva, P. *44
Marziali, L. *180
Masner, L. *279 *284
Mason, J. E. *238
Mason, L. *399
Mason, L. J. *450
Mason, P. B. *102
Mason, S. C. *399
Mason, T. H. *400
Massee, A. M. *102 *238
Massey, C. *211 *512
Massey, H. *400
Masterson, M. *8
Matheson, R. E. *506
Mathew, G. F. *400
Mathews, G. F. *400
Mathis, W. N. *180 *183
Matile, L. *169
Matthaei, C. D. *15 *74 *161 *216 *482
Matthews, A. *102
Matthews, D. I. *23
Matthews, M. J. *284
Matthews, S. M. *312
Mattingly, P. F. *157
Maw, H. E. L. *230
May, P. R. *400
Mayhew, P. *27
Mc Donnell, R. *196
Mc Donnell, R. J. *173 *180 *181 *196 *213
McAdam, J. H. *104
McAney, C. M. *27 *40 *43 *209
McAree, D. *15 *86 *501
McAree, D. T. *28 *102 *284 *400 *506
McArthur, H. *400
McCabe, O. M. *34 *115 *192 *221
McCann, Y. *27
McCarthy, D. T. *28
McCarthy, F. *131
McCarthy, F. A. *134
McCarthy, R. *25 *235 *238 *280 *504 *506
McCarthy, T. K. *16 *28 *102 *103 *110 *142 *162 *166 *180 *216 *227 *238 *244 *248 *463 *467 *482
McCaughey, W. J. *170 *503

McCausland, K. A. *130
McClean, G. *284
McClean, H. *400
McClean, J. *338
McClenaghan, I. *96 *102 *284 *441
McCloskey, J. M. *180
McCluen, S. R. *159
McCombe, M. *513
Mc Conigley, C. *28 *467
McCorkmack, D. *49
McCormack, G. P. *277
McCormack, S. *19 *28 *37 *47 *49 *60 *64 *82 *100 *102 *103 *119 *134 *137 *138 *166 *194 *222 *230 *231 *239 *244 *253 *272 *284 *289 *300 *400 *413 *442 *450 *454 *460 *462 *468 *471 *476 *479 *492
McCormick, R. *351 *381 *390 *400
McCormick, R. F. *348 *351 *357
McCracken, A. *506
McCracken, A. R. *28 *180 *239 *400 *478 *506
McCutcheon, W. I. *400
McDevitt, A. *11 *68 *262 *481
McDonagh, R. S. *401
McDonald, R. A. *42 *125 *208 *247 *311 *424 *479
McDonnell, N. *18 *77 *165 *217 *230 *439 *445 *464 *483
McDonnell, R. J. *103 *130 *178 *208
McDonold, J. *36
McDowall, H. *401
McFadden, Y. M. T. *103 *220
McFerran, D. *60 *103
McFerran, D. M. *60 *68 *103 *104
McGarrigle, M. *25 *28 *43 *97 *175 *219 *235 *393 *466 *485
McGarrigle, M. L. *27 *181
McGavin, G. C. *130
McGeeney, A. *444
Mcginley, L. *211 *512
McGinnity, P. *11 *68 *262 *481
McGoff, E. *28 *29
McGowan, B. *441
McGrath, D. *22 *48 *90 *133 *171 *233 *447 *484
McGuinness, C. *10 *13
McGuinness, C. A. *29 *220
McGurdy, A. *401
McIlveen, D. *401
McKay, R. *506
Mckee, A. M. *199
McKeown, I. *166
McKeown, M. *181 *194
McKeown, S. *129
McKie, B. G. *486
McLachlan, R. *220 *441 *450 *460 *470 *486
McLarnon, L. A. *177 *181
McLaughlin, V. *437
McLean, I. *29 *181
McLellan, L. *412
McLoughlin, V. *432
McMahon, B. *36
McMahon, B. J. *29 *284 *364
McMahon, E. *181 *500 *506
McMahon, S. *401
McMillan, N. F. *27 *29
McMullan, J. B. *263 *284
McNaeidhe, F. *196 *510
McNamara, L. *104 *506
McNaughton, C. *490 *491
McNeill, M. R. *118 *272 *284 *299 *511
McPherson, A. E. *251
McWeeney, E. J. *104
Mead-Briggs, A. R. *29
Meade, C. *31 *110 *135 *289 *407
Meade, R. H. *181
Meagher, O. *413
Medlock, J. M. *181 *211 *512
Meek, E. G. *401
Meier, R. *194
Meinertzhagen, R. *401
Melika, G. *303
Mellander, P.-E. *15 *74 *161 *216 *482
Melling, T. *326 *341
Mellon, C. *6 *54 *224 *252 *324 *325 *432 *437
Memmott, J. *38 *121 *196 *302 *416
Mendel, H. *104
Mendl, H. *181
Mengual, X. *180
Menzel, F. *181 *182
Menzies, F. *166
Menzies, I. S. *104
Mera, A. W. *401
Mercer, D. *166

Mercer, P. C. *497 *506
Mere, R. M. *401
Merne, O. J. *181
Merrifield, F. *401
Merritt, R. *81 *450
Mertlik, J. *104
Merz, B. *181 *182
Messing, R. H. *230
Meuffels, H. J. G. *207
Meyrick, E. *401
Michez, D. *282
Michiels, S. *29
Middleton, B. L. *401
Middleton, H. G. M. *351
Mifsud, D. *238 *506
Mighall, T. *66
Mikcshe, D. *36
Mikó, I. *284
Miler, O. *28 *29 *35 *194 *221 *492
Miles, H. W. *284
Miles, P. M. *182
Mill, P. J. *450
Millar, R. *104 *182 *401
Millar, S. *338
Miller, K. B. *63
Miller, P. L. *451
Miller, R. H. *402
Millington, S. *166
Mills, P. *23 *218 *235 *466
Milne, J. N. *401
Minár, J. *182
Minchin, D. *105 *239 *284 *401 *507
Mineo, G. *285 *292 *293 *294
Mitchell, F. *29
Mitchell, F. J. G. *34 *113 *191 *199 *452
Mitchell, R. *182 *285
Mitroiu, M.-D. *285
Moffat, C. B. *6 *29 *42 *51 *182 *256 *285 *323 *329 *401 *402 *423 *451 *507
Mohammadi-Khoramabadi, A. *285
Mohrig, W. *181 *182
Mol, A. W. M. *229
Moles, R. *402
Moller, C. J. *306
Moller, G. J. *285
Moller Pillot, H. K. M. *212
Molloy, K. *156
Moloney, J. M. *296
Momen, F. M. *14 *72 *132 *159
Monaghan, M. *283
Monaghan, N. T. *29
Monahan, C. *105
Monserrat, V. J. *441
Monteil, C. *205 *207
Monteith, D. T. *66
Monteith, R. *49
Montgomery, -. *402
Montgomery, S. S. J. *474
Montgomery, W. I. *25 *104 *218 *474
Montoya, D. *38 *121 *196 *302 *416
Moore, A. *49 *402
Moore, B. P. *105
Moore, C. *130
Moore, E. *277
Moore, F. W. *507
Moore, G. A. *108
Moore, J. *402
Moore, J. F. *12 *264 *352 *500
Moore, J. P. *108 *147 *335
Moore, K. *34 *113 *191 *452
Moore, N. W. *444 *450 *451
Moore, P. *105 *476
Moore, R. *105
Moore, W. W. *451
Moorkens, E. *41 *124 *206 *247 *306 *422 *456 *469
Moraglio, S. T. *313
Morales, C. L. *311
Moran, J. *31 *39 *105 *119 *122 *139 *196 *197 *213 *418 *455
Moran, S. A. *76
Moravvej, G. *281
Moretti, M. *44
Morgan, B. J. T. *357
Morgan, D. *182 *285
Morge, G. *176
Moriarty, C. *29 *220 *239 *402 *451 *486
Moriarty, M. *168
Morice, F. D. *285 *303
Morison, G. D. *478
Moriya, S. *303
Morley, B. *402
Morley, C. *105 *182 *285 *286 *303
Morris, H. M. *182
Morris, M. G. *29 *53 *82 *91 *105 *106 *107 *239 *402 *460

Morris, P. *217 *465
Morris, R. *286
Morse, G. E. *159
Morton, A. C. *341
Morton, K. J. *402 *441 *451 *467 *470 *487
Mosely, M. E. *220 *441 *460 *467 *487
Mossakowski, D. *98
Moths Ireland *507
Mound, L. A. *238 *478
Mowat, D. J. *182 *507
Muggleton, J. *63
Mulcahy, M. F. *30 *221 *239 *474
Mulcahy, R. *472
Mulcahy, R. M. *474
Mulkeen, C. J. *139 *179 *181 *213
Mullen, K. *30 *108 *182 *239
Mullin, J. *182
Mullins, E. *31 *110 *135 *289 *407
Mulqueen, J. *503
Munari, L. *183
Munk, T. *192
Murchie, A. *30 *166 *279
Murchie, A. K. *14 *15 *30 *43 *73 *108 *137 *174 *183 *210 *211 *228 *312 *354 *355 *500 *501 *507 *510 *511 *512
Murney, R. *255
Murphy, D. *33 *452
Murphy, D. H. *134
Murphy, G. *211 *512
Murphy, J. F. *30 *469
Murphy, P. M. *30 *150 *221 *239 *487
Murray, A. M. *239
Murray, D. *25 *26 *97 *126 *175 *219 *235 *393 *402 *466 *485
Murray, D. A. *6 *7 *10 *30 *33 *34 *46 *49 *61 *111 *115 *131 *138 *142 *144 *148 *162 *163 *165 *171 *178 *182 *183 *184 *185 *186 *189 *192 *196 *210 *215 *221 *224 *225 *242 *254 *293 *326 *407 *438 *441 *443 *461 *463 *471 *475 *479 *480 *481 *509
Murray, H. *402
Murray, J. *186 *287
Murray, T. *60 *277 *287 *402 *403
Murray, T. E. *270 *271 *287
Murray, W. A. *185 *186
Múrria, C. *487
Musgrave, J. A. *403
Mustapha, M. *161
Mutanen, M. *282
Muus, T. S. T. *352
Myers, A. A. *403 *420

N

NaMaghi, H. S. *281
Napier, K. *211 *512
Napper, E. *197 *303
Nartshuk, E. P. *186 *196
Nash, D. *239 *397 *403 *404 *413
Nash, D. W. *305 *323 *404 *421 *431
Nash, R. *30 *33 *37 *38 *48 *60 *108 *112 *138 *151 *156 *173 *174 *186 *187 *190 *206 *207 *239 *242 *243 *258 *259 *287 *288 *293 *294 *336 *338 *404 *405 *408 *452 *460 *461 *479 *508
Nash, S. *404
National Biodiversity Data Centre *30 *108 *186 *239 *287 *404 *451 *460 *508
National Museums Northern Ireland *31
National Parks & Wildlife Service *404 *508
Nau, B. *240
Naves, C. G. A. M. *395
Nazari, E. *128
Nazarov, V. *430
NBN Atlas Northern Ireland *31
Neal, M. *404
Neale, F. *108 *404 *405 *460
Neale, M. *31 *108 *240 *467
Neave, S. A. *287
Nedeljković, Z. *187
Neenan, M. *108 *508
Negrobov, O. P. *187
Nelson, B. *6 *9 *16 *18 *31 *33 *37 *41 *46 *49 *54 *60 *75 *78 *79 *81 *108 *109 *112 *124 *130 *135 *136 *137 *138 *141 *187 *206 *207 *221 *224 *226 *227 *228 *229 *230 *231 *240 *241 *243 *247 *248 *252 *254 *287 *288 *306 *325 *326 *387 *404

Nelson, B. (cont.) *405 *413 *422 *426 *437 *441 *442 *443 *444 *445 *451 *452 *455 *456 *460 *461 *462 *464 *467 *469 *471 *475 *479 *490
Nelson, B. H. *31 *81 *100 *109 *187 *241 *288 *405
Nelson, J. *405
Nemkov, P. G. *288
Nessimian, J. L. *133
Neu, P. J. *487 *493
Neville, P. *34 *113 *191 *452
New, T. R. *470
Newbery, E. A. *66
Newbold, J. W. *497
Newham, Z. *211 *512
Newland, C. B. *288 *405
Newland, C. Bingham *405 *406
Newland, D. *406
Newman, E. *109 *406
Newman, L. H. *31
Newman, L. W. *406 *407
Newstead, R. *241
Newton, J. *407 *456 *495
Nhi Thi Pham, N. T. *282
Ní Ainín, B. *16
Ní Bhriain, B. *109
Ní Chathin, B. *14 *73 *160 *228
Ní Lamhna, E. *354 *407 *452
Nichols, A. R. *241
Nicholson, C. *288 *407
Nicholson, G. W. *109 *110 *288
Nickel, H. *249
Niechoj, R. *258
Niedringhaus, R. *249
Nield, C. E. *110
Nielsen, E. S. *393
Niemela, J. *44
Niemelä, J. *44 *128
Nienhuis, C. M. *288
Nieser, N. *241
Nieves-Aldrey, J.-L. *301
Nikolić, T. *212
Nilsson, A. N. *110
Nistorescu, M. *23 *486
Nixon, D. *241 *413
Nixon, G. E. J. *288
Noake, B. *409
Nobes, G. *81
Nolan, M. *28 *31 *103 *110 *113 *239 *487
Noordijk, J. *98 *275 *471
Norgate, M. *262 *498
Normark, B. B. *232 *503
Norrbom, A. L. *187
Norris, D. *407
North, R. *289
Northern Ireland Priority Species *31
Northridge, R. *452
Norton, M. *10 *66 *148 *215 *463 *481
Norton, M. A. *34 *112 *221 *243 *442 *452 *468 *490
Norton, W. *407
Nosek, J. *49
Notcutt, B. *193
Notton, D. *260
Notton, D. G. *261 *289 *294
Nowak, D. *103 *110
Nowicki, P. *44
Noyes, J. *253 *265 *275
Noyes, J. S. *275 *278 *289
Nyman, T. *262 *498

O

O Connor, Á. *31 *109
Ó Floinn, T. *31
Ó hUallacháin, D. *19 *82 *100 *103 *139 *166 *231 *272 *289 *506
O'Boyle, J. *325
O'Brien, A. *259
O'Brien, C. *66 *110 *188
O'Brien, F. A. *110
O'Brien, J. *508
O'Brien, J. J. *170 *503
O'Brien, K. D. *460
O'Brien, L. B. *225
O'Brien, M. *31 *110 *135 *289 *407
O'Brien, V. *13
O'Callaghan, D. *508
O'Callaghan, D. P. *110
O'Callaghan, E. *110
O'Carroll, N. *508
O'Ceallachain, D. P. *111 *121
O'Connell, C. *126 *210 *222 *469 *493
O'Connell, C. A. *40
O'Connell, P. *111
O'Connell, T. *135

O'Connor, A. [Aine] *38 *66 *111 *120 *195 *222 *245 *413 *443 *455 *462 *492
O'Connor, Á. [Áine] *39 *81 *100 *101 *122 *197 *241 *418 *455
[see also O Connor, Á.]
O'Connor, A. [Andrew] *508
O'Connor, B. *9 *28 *180 *467
O'Connor, J. *508
O'Connor, J. P. *6 *16 *19 *30 *31 *32 *33 *34 *37 *38 *45 *46 *49 *60 *61 *75 *82 *86 *105 *107 *108 *111 *112 *113 *120 *130 *131 *135 *137 *138 *142 *143 *144 *147 *151 *155 *156 *161 *163 *167 *172 *174 *185 *186 *187 *188 *189 *190 *191 *195 *207 *213 *214 *215 *216 *217 *221 *223 *224 *229 *231 *239 *241 *242 *243 *245 *248 *252 *254 *258 *260 *261 *272 *282 *284 *285 *287 *288 *289 *290 *291 *292 *293 *294 *295 *301 *302 *306 *312 *326 *338 *354 *407 *408 *438 *439 *441 *442 *445 *446 *452 *460 *461 *463 *465 *467 *468 *469 *471 *474 *475 *478 *479 *480 *481 *482 *483 *484 *487 *488 *489 *490 *491 *492 *493 *495 *502 *504 *508 *509 *511
O'Connor, M. *295
O'Connor, M. *221 *468
O'Connor, M. [see M. A.] *112 *490
O'Connor, M. A. *34 *112 *189 *190 *191 *221 *242 *243 *293 *295 *439 *442 *452 *461 *468 *483 *489 *490 *491 *492 *493 *509
[see Norton, M.]
[see Norton, M. A.]
O'Connor, R. *509
O'Dea, P. *28
O'Donnell, D. *248
O'Donnell, E. *34 *325 *408 *452
O'Donnell, G. *445
O'Donnell, L. *66
O'Donnell, M. *296 *324 *325 *408 *412 *435
O'Donoghue, S. *199
O'Donovan, G. *40 *123 *135 *138 *197 *246 *305 *442
O'Donovan, J. E. *408 *461
O'Driscoll, C. *221 *468
O'Farrell, A. F. *34 *408 *452 *509
O'Farrell, M. *463
O'Flanagan, L. P. *296
O'Flynn, C. *296 *509 *510
O'Flynn, H. *408
O'Gorman, F. *475
O'Gorman, K. *23 *174 *218 *466 *484
O'Grady, A. *254 *296
O'Grady, M. *408
O'Grady, M. F. *16 *19 *26 *34 *75 *163 *216 *229 *243 *442 *445 *463 *482
O'Halloran, J. *13 *16 *23 *27 *34 *46 *72 *75 *102 *108 *113 *167 *174 *180 *191 *199 *217 *218 *229 *265 *354 *445 *452 *465 *466 *469 *484 *510
O'Hanlon, A. *113 *139
O'Hanlon, R. *510
O'Hanrahan, B. M. *491
O'Hea, N. *113
O'Hea, N. M. *113
O'Keeffe, C. *38 *120 *195 *222 *245 *468 *492
O'Keeffe, D. *391
O'Kennedy, N. D. *510
O'Mahony, E. *34 *46 *47 *72 *113 *114 *115 *138 *191 *408 *475 *510
O'Mahony, P. *365
O'Meara, M. *115 *221 *296 *302 *408
O'Neill, B. *408
O'Neill, F. *129
O'Neill, K. *42 *125 *208 *247 *311 *424 *479
O'Neill, L. *33 *46 *49 *111 *112 *138 *189 *242 *293 *407 *441 *461 *471 *475 *479 *509
O'Neill, N. *12 *14
O'Neill, R. *168
O'Nuallain, T. *505
O'Reilly, M. *129
O'Riain, S. *510
O'Riordan, C. E. *34

O'Rourke, E. *10 *65 *148 *258
O'Rourke, F. *296 *297 *408
O'Rourke, F. J. *34 *70 *191 *192 *445 *447 *452 *472 *475 *510
O'Scanaill, P. *510
O'Shea, D. *474
O'Sullivan, A. D. *34 *115 *192 *221
O'Sullivan, C. M. *115
O'Sullivan, G. *135
O'Sullivan, H. M. *115 *475
O'Sullivan, J. *115 *116 *408 *461 *510
O'Sullivan, J. E. *129
O'Sullivan, M. *35 *116 *192 *408 *409 *453 *461
O'Sullivan, M. J. *35 *116 *192 *396 *409
O'Toole, C. *252
O'Tuama P. *104 *506
Oates, M. *341
Obrdlik, P. *12 *205
Obreht, D. *187
Oddsdóttir, E. S. *233 *503
Okely, E. F. *192 *241
Økland, B. *175
Olberg, S. *116
Oldham, C. *409
Oldroyd, H. *192
Oliver, G. A. *22 *35 *49 *90 *116 *192 *221 *233 *243 *453 *468
Oliver, T. H. *399
Olmi, M. *63
Oormazdi, H. *496 *510
Oosterbroek, P. (Osterbroek *sic*) *143 *192 *197
Orledge, G. M. *116 *253 *297
Ormerod, S. J. *223
Orr, H. K. *192
Orr, H. L. *297 *409
Orridge, S. *436
Ortiz, R. G. *192
Osborne, J. A. *192
Ostojá-Starzewski, J. C. *116
Ostovan, H. *166 *171 *231
Ostrauskas, H. *238
Otte, B. *510
Otte, M. L. *34 *115 *192 *221
Ottino, P. *35
Owen, J. *116
Owen, J. A. *91 *100 *107 *116
Oxbrough, A. *27 *34 *102 *113 *180 *191 *199 *452 *510
Özbek, H. *264 *275 *297 *409
Özdikmen, H. *116 *117 *127

P

Paarmann, W. *98
Pack-Beresford, D. R. *192 *262 *297
Pack-Beresford, H. D. *297
Padisák, J. *512
Page, A. *348 *409
Page, R. J. C. *29
Paine, A. *453
Paine, T. D. *192 *243 *510
Palmer, C. *409
Palmer, J. A. J. *297 *409
Palmer, J. M. *478
Palmer, R. F. *475
Palmer, S. *409
Palmer, S. M. *335 *395
Palomares, A. *98
Pamilo, P. *257
Pansa, M. G. *313
Pape, T. *150 *167
Papp, J. *297 *298
Papp, L. *192 *193
Parker, J. *193
Parker, M. *154
Parker, M. J. *193
Parker, W. E. *117 *511
Parkin, E. *246
Parmenter, L. *193
Parnell, J. A. N. *43
Parr, A. *444 *453 *454
Parr, A. J. *454
Parsons, C. Q. *409
Parsons, M. *409 *412 *419 *424
Parsons, M. S. *324 *335 *409 *412
Parsons, R. E. *409
Partridge, C. E. *409 *410
Pascual, X. P. *298
Pasley, L. M. S. *410
Pasnik, G. *117
Paterson, T. G. F. *410
Patterson, R. *117 *193 *298
Patterson, W. H. *117
Paul, J. *410
Paull, A. W. *498
Pavićević, A. *117
Paviour-Smith, K. *117

Paxton, R. *269 *298
Paxton, R. J. *271 *287 *298
Payne, K. R. *237
Peacock, E. R. *117
Peacock, L. *87
Pearce, E. J. *117 *243 *244
Pearce-Higgins, J. W. *27
Pearson, D. H. *410
Pease, T. H. O. *410
Peck, L. V. *193
Pedgley, D. E. *410
Peet, T. N. D. *410
Pelham-Clinton, E. C. *339 *347 *380 *401 *410
Penaliggon, J. *477
Penk, M. R. *26 *98 *134 *175 *220 *467 *486
Pennerstorfer, J. *395
Penney, D. *193
Pentecost, A. *35
Pentland, G. H. *298
Peris-Felipo, F. J. *298
Perkins, J. F. *298 *410
Perkins, R. C. L. *298 *299
Perlman, S. J. *251
Perrin, V. L. *454
Perry, I. *151
Perry, I. J. *278 *504
Perry, J. N. *147 *498
Perry, K. W. *5 *51 *139 *215 *224 *462 *480
Pesenko, Y. *299
Pešić, V. *117
Peters, J. V. *410 *471 *511
Pettybridge, G. H. *505
Pflüger, V. *211 *512
Phibbs, G. *193 *499
Phibbs, G. B. *193
Philipson, G. N. *494
Phillips, C. B. *118 *299 *511
Phillips, H. *10 *66 *148 *215 *463 *481
Phillips, J. W. *351
Phillips, K. C. J. *118
Phillips, R. A. *118 *299 *410
Piazak, N. *128
Pickett, C. T. *410
Pickles, A. J. *347 *391 *410 *411 *420 *427 *433
Pickles, C. T. *347 *391 *411 *420 *427 *433
Pickles, T. *35
Picton, B. *9
Pierce, F. N. *366 *411
Piggott, J. J. *15 *74 *161 *216 *482
Pike, K. S. *230
Pilgrim, E. M. *454
Pilgrim, R. L. C. *475
Pilotto, F. *28 *29 *35
Pinchen, B. *461
Pinder, L. C. V. *178 *193
Pinniger, D. *49
Pintureau, B. *299
Piper, M. *456
Pithon, J. *108
Pitkin, B. R. *193 *478 *479
Pitkin, L. M. *335 *411
Pittaway, A. R. *411
Pizzoloto, R. *98
Plant, A. *193
Plant, A. R. *193
Plant, C. *18 *77 *165 *217 *230 *439 *445 *464 *483
Plant, C. W. *156 *193 *411 *442
Plassmann, E. *193
Platia, G. *104
Pocknell, I. *211 *512
Poland, R. L. *121
Polaszek, A. *227
Polevoi, A. *175
Pollard, E. *326 *357 *411
Pollet, M. *193
Pollock, J. H. *411
Ponge, J.-F. *135
Pont, A. *194
Pont, A. C. *35 *165 *194 *215
Poole, A. *118
Poole, C. *411
Poole, R. *11 *16 *39 *121 *135 *161 *196 *216 *222 *463 *468 *482 *492
Pope, R. D. *51 *118
Popescu, C. *486
Popham, E. J. *138
Popovici, O. *299
Porritt, G. T. *411
Porst, G. *28 *29 *35 *194 *221 *492
Porter, E. *118 *411
Porter, J. *328 *391 *411
Porter, K. *35 *354 *357 *411

Porter, K. J. *326 *341 *351
Porter, W. E. H. *411
Post, R. J. *161
Potito, A. P. *156 *181 *194
Potts, S. G. *266
Poulding, R. H. *163
Poulton, E. B. *35
Powell, G. *235 *504
Powell, W. *244 *299
Power, B. *60 *226 *376 *495
Power, E. F. *35 *194 *299 *312
Power, J. A. *35 *118
Powney, G. D. *399
Praed, C. W. Mackworth *411
Praeger, R. L. *35 *36 *104 *118 *299 *411
Praeger, R. Ll. *11 *36
Prat, N. *487
Pratt, C. *412
Pratt, C. R. *326 *333
Preda, E. *23 *486
Preddy, S. *454
Prendergast, W. F. *499
Prentice, S. *444
Prescott, T. *409 *412
Price, P. W. *178
Prijs, J. *145
Prior, G. *414
Prodohl, P. *11 *68 *262 *481
Proffitt, J. R. *284
Prous, M. *282 *299
Prout, L. B. *412 *436
Prŷs-Jones, O. E. *299
Pujade-Villar, J. *311
Pullin, A. S. *412 *432
Purcell, P. J. *12
Purefoy, E. Bagwell *412
Purefoy, E. G. *412
Purvis, A. *266
Purvis, G. *6 *7 *22 *23 *29 *36 *54 *62 *72 *77 *90 *118 *129 *131 *132 *135 *140 *145 *171 *224 *225 *227 *228 *234 *244 *238 *253 *262 *277 *284 *299 *496 *502 *512 *513
Pusch, M. *35 *194 *221 *492
Pusch, M. T. *16 *28 *29
Puthz, V. *221
Pye, D. *238

Q

Qiang, L. Q. *283
Quicke, D. L. J. *252 *255 *281 *298
Quinlan, J. *299 *300
Quirke, D. A. *118

R

R. F. B. *36
Rabitsch, W. *244
Rach, B. *46
Radenković, S. *187 *212
Radulović, S. *25
Ragge, D. R. *461
Ragonot, E. L. *412
Rakhshani, E. *298 *312
Ramsay, A. *244
Ramsay, A. J. *118
Ramsdale, C. *194 *199 *511
Ramsdale, C. D. *159 *194
Randle, Z. *303 *412
Rankin, D. H. *404 *412
Rankin, N. M. *412
Raper, C. *335
Rapisarda, C. *238 *506
Rasmont, P. *282 *300
Rasnitsyn, A. P. *257
Rathborne, H. B. *412
Razowski, J. *363
Rea, I. *174 *211 *512
Read, M. J. *341
Read, R. W. J. *118
Rear, D. *412
Reardon, N. *365
Rebane, M. *44
Rebelo, H. *262
Reddin, T. K. *499
Redfern, M. *33 *36 *111 *118 *190 *242 *293 *300 *408
Redgate, N. D. *47
Redstone, S. *101
Redway, D. B. *412 *413
Reed, T. *31 *66
Rees, A. T. *194
Rees, C. J. *36
Regan, E. *9 *18 *28 *31 *36 *37 *39 *47 *49 *78 *103 *118 *119 *122 *130 *137 *138 *194 *197 *222 *239 *244 *271 *284 *300 *325 *365 *400 *413

Regan, E. C *119 *219 *413 *418 *442 *446 *450 *454 *455 *460 *461 *462 *468 *471 *475 *476 *479 *492
Reid, C. *119
Reid, C. A. M. *119 *413 *511
Reid, W. *413
Reilly, E. *24 *37 *119 *195 *300 *454 *462
Reilly, F. *66
Reilly, P. *244
Reimer, P. J. *213
Reiss, F. *165 *195
Rejzek, M. *119
Remane, R. *231
Remm, H. *195
Renouf, L. P. W. *119 *244 *413
Reusken, C. *197
Revell, R. J. *413
Reynell, H. E. *413
Reynolds, J. *217 *300 *465
Reynolds, J. D. *11 *37 *38 *81 *110 *119 *120 *137 *148 *195 *222 *241 *244 *245 *300 *345 *413 *443 *454 *455 *462 *468 *481 *492
Reynolds, S. C. *38
Reynolds, S. C. P. *300
Reynolds, S. E. *116
Rhynehart, J. G. *413 *505 511
Ribbands, B. *120
Ribera, C. *487
Ribera, I. *120
Richards, O. W. *38 *120 *128 *195 *300 *301 *414
Richardson, A. *414
Ridley, H. L. *462
Ridley, H. N. *120
Riedel, M. *301
Rieger, C. *224 *225
Rigney, S. *112
Riipinen, M. P. *468 *492
Riley, A. M. *414
Riley, N. D. *414
Rimðaitë, J. *280
Rindal, E. *199
Ripley, M. P. *195
Rippey, B. *25 *31 *108 *240 *466 *467
Rippey, I. *38 *336 *414 *415 *431
Rîşnoveanu, G. *23
Robbins, J. *195 *415
Robbins, J. M. *301 *455
Roberts, C. J. *476
Roberts, S. P. M. *266 *301
Robertson, J. *245
Robertson, P. A. *38
Robertson, T. S. *415
Robinson, G. *415
Robinson, G. S. *415
Robinson, H. S. *415
Robinson, J. *282
Robinson, N. A. *301
Rocha Pité, M. T. *144
Roche, G. *120
Roche, N. *217 *465
Roden, C. *109
Rodgers, M. *221 *468
Rognes, K. *167 *195
Roháček, J. *195
Rohwedder, D. *46
Rokas, A. *301
Rolston, E. *431
Rolston, T. *325
Ronayne, C. *112 *120 *156 *191 *195 *288 *295 *301 *302 *415 *452 *455
Ronquist, F. *311
Roper, I. M. *195 *302
Roques, A. *302
Rosenthal, A. *409
Ross, C. G. *38
Ross, E. *480
Ross, H. C. G. *30 *187
Ross, J. G. *476
Rossaro, B. *180 *195
Rotchés-Ribalta, R. *139
Roth, S. *245
Rotheray, E. *262
Rotheray, G. *179
Rotheray, G. E. *195
Rothschild, M. *474 *476 *477
Rothschild, N. V. *476
Routledge, S. *81
Rowntree, J. *193
Roy, D. B. *357 *367 *434
Roy, H. *120 *268 *474
Roy, H. E. *108 *120 *121 *264
Rozkosny, R. *180 *195 *196

Ruas, S. *139
Ruiz, Z. *110 *188
Ruse, L. P. *178 *214
Russ, P. H. *415 *416
Russell, S. G. Castle *416
(see Castle Russell, S. G.)
Russo, L. *38 *121 *196 *302 *416
Rutherford, C. I. *416
Rutrecht, S. T. *302
Rutten, T. *335
Ruttledge, R. F. *416
Ruttledge, W. *416
Ryan, B. *231 *273
Ryan, C. *510
Ryan, D. K. *38
Ryan, E. W. *38 *121 *138 *196 *245 *302 *416 *479 *511
Ryan, J. *38 *196
Ryan, J. G. *38
Ryan, M. F. *15 *38 *63 *73 *111 *121 *145 *196 *510 *511
Ryan, R. *245
Ryan, R. P. *245 *246
Ryan, S. *43 *65 *248 *493
Ryder, C. *22 *89 *170 *196 *218 *233 *447
Ryder, E. *16 *161 *216 *463 *482
Ryder, L. *39 *121 *135 *196 *222 *468 *492
Rye, E. C. *121

S

Sadler, E. A. *416
Saether, O. A. *196 *197
Sage, B. L. *121
Sakaltaş, E. *302
Salisbury, A. *121 *246 *302 *335 *411 *511
Salisbury, A. N. *98 *505
Salmon, M. A. *416
Salt, D. T. *416
Salter, M. *416
Salter, M. G. *416
Salter, M. J. *416
Salur, A. *98
Salwey, R. E. *416
Salz, H. Bytinski- *416
(see Bytinski-Salz, H.)
Samanidou-Voyadjoglou, A. *178
Samin, N. *302
Samouelle, G. *39
Samson, C. *404
Sandford, H. C. *416 *417
Sandin, L. *28 *29 *35 *194 *221 *492
Sands, B. *129
Sang, J. *417
Sangpradub, N. *483 *492
Sangradup, N. *20
Sankey-Barker, J. P. *417
Sankey-Barker, P. B. *417
Santorum, V. *36 *271 *302
Santos, P. *44
Sarthou, J.-P. *204 *205 *207
Sartori, M. *217
Saska, P. *98
Sattler, K. *335 *381 *417
Sattler, T. *44
Saundby, R. *417
Saunders, E. *246 *302 *303
Saura, A. *144
Savage, A. *246
Savage, A. A. *246 *417
Savchenko, E. N. *197
Saville, B. *471
Saville, R. E. *470
Sawoniewicz, J. *303
Scanes, J. T. *351
Scannell, M. J. P. *34 *38 *39 *197 *303 *417
Schaffers, A. *83
Schaffers, J. *417
Schaffner, F. *211 *512
Scharff, R. F. *39 *303
Schaum, H. *122
Scheffer, S. *251
Scheidegger, C. *44
Scherer, G. *122
Schilthuizen, M. *122
Schiltz, R. W. *197
Schindler, M. *23
Schmidt, E. *455
Schmidt, O. *36 *131 *248 *258 *296 *513
Schmitz, H. *197
Schmidt-Kloiber, A. *487
Schnee, H. *260
Schneider, E. *12
Scholte, E.-J. *197
Scholze, M. *434

Schönrogge, K. *148 *197 *295 *303 *311
Schoorl, J. W. *417
Schopf, A. *89
Schröder, P. *197
Schulte, R. *36
Schulte, R. P. O. *512
Schumann, H. *197
Schwarz, M. *303 *304
Schweder, H. *197
Schweiger, O. *266 *395
Schwerk, A. *98
Scott, D. *122
Scott, D. A. *39 *417 *455
Scott, G. C. *417
Scott, J. *229 *246
Scott, J. A. *417
Scott, N. E. *39 *122 *197 *418 *455
Scott, R. H. *304
Scudder, G. C. E. *246
Scully, R. *417
Seaby, D. *44 *129 *213 *249 *314 *431 *513
Sears, J. *304
Sefton, T. W. *417
Segonds-Pichon, A. *244
Selby, K. *110 *188
Sellick, J. *39
Serafim, R. *101
Serrano, A. *128
Serrano, J. *98 *128
Serri, S. *122
Settele, J. *395
Shackleton, J. *418
Shaffer, M. *418
Shafiei, S. *285
Shamshev, I. V. *198
Shannon, W. G. *511
Sharp, D. *122
Sharp, W. E. *122 *126
Shaw, E. *462
Shaw, J. J. *122
Shaw, M. *260 *436
Shaw, M. R. *39 *166 *252 *258 *260 *266 *269 *270 *280 *289 *295 *303 *304 *305 *311 *418
Shaw, P. *135
Shaw, R. *246
Shaw, S. E. *477
Shea, K. *38 *121 *196 *302 *416
Shea, T. *418
Sheahan, J. *213
Sheehan, C. *36
Sheehy Skeffington, M. *31 *39 *105 *109 *118 *121 *122 *135 *179 *196 *197 *222 *418 *455 *468 *492
Sheehy Skeffington, M. J. *40
Sheldon, W. G. *418
Sheng, M.-L. *282
Shephard, G. *122
Shepherd, L. *418
Sheppard, D. *282
Sheppard, D. A. *282
Sheppard, R. *325 *408
Sheridan, H. *6 *23 *29 *36 *40 *54 *123 *135 *138 *140 *197 *224 *234 *246 *253 *284 *289 *305 *442
Sheridan, S. *19 *82 *166 *231 *272
Sherrard, G. O. *305 *479
Sherrard, O. *511
Shevtsova, E. *277
Shiel, C. B. *18 *40 *43 *165 *209 *483
Shield, R. *418
Shine, O. *181
Shinohara, A. *257 *305
Shirley, P. *36 *118 *197 *244 *300
Shoebotham, J. W. *135
Shojai, M. *302
Shorrocks, B. *197
Showler, A. J. *418
Shreeve, T. *357
Shreeve, T. G. *326 *351 *357
Shute, S. L. *123
Sibigtroth, L. *16 *161 *216 *463 482
Sidebotham, J. *123
Sielezniew, M. *148
Sigurdsson, V. *233 *503
Sigurgeirsson, A. *233 *503
Simbolotti, G. *305
Simcox, D. J. *351
Simón, C. *135
Simon, N. *38 *120 *195 *222 *468 *492
Simonsen, T. J. *419
Simpson, A. N. B. *335 *347
Simpson, T. *419
Sims, I. *305

Sinclair, B. J. *198
Sinclair, F. W. *419
Sinclair, W. *419
Sioen, G. *313
Sivec, I. *469
Skartveit, J. *198
Skelton, M. J. *380 *462
Skelton, P. *419
Skillen, J. *198 *305
Skillen, S. *11 *472 *475 *476
Skillman, E. E. *500.
Skinner, B. *322 *347 *348 *352 *361 *400 *404 *419 *433
Skinner, B. F. *420
Skinner, G. J. *305
Skrzypczńsa, M. *302
Skuhrava, M. *198
Skuhravá, M. *198
Skuhravý, V. *198
Sladen, F. W. L. *40
Slattery, T. *499
Sleeman, D. P. *40 *46 *47 *86 *123 *147 *168 *191 *198 *222 *305 *476 *477 *492 *511
Sleeman, P. *40 *476
Slocombe, S. *393
Smal, C. M. *98 *115 *129 *475
Small, J. *40
Smallshire, D. *444 *455
Smart, H. D. *420
Smetana, A. *101
Smiddy, P. *18 *40 *46 *86 *123 *165 *198 *241 *420 *455 *473 *476 *477 *483 *510
Smit, F. G. A. M. *472 *477
Smith, A. M. *305
Smith, B. *436
Smith, C. *469
Smith, D. N. *123
Smith, D. R. *257
Smith, F. *305
Smith, G. F. *199
Smith, J. E. *181
Smith, K. G. *18
Smith, K. G. V. *40 *172 *199 *207 *479
Smith, L. *178
Smith, M. N. *123 *199
Smith, P. A. *116
Smith, P. S. *420
Smith, P. Siviter- *420
Smith, V. *40
Smith, W. Rait- *420
Smithers, C. *470
Smithers, C. N. *471 *509 *511
Smyth, F. *305 *324 *397 *421
Smyth, J. *231
Snell, R. N. *421
Snow, K. *194 *199 *511
Snow, K. R. *159 *181 *194 *199
Sokoloff, P. *40
Sokoloff, P. A. *421
Soland, G. *277
Soldán, T. *215
Solem, J. O. *493
Søli, G. *199
Solimini, A. *29 *35 *194 *221 *492
Solimini, A. G. *28
Somerville, J. E. *123
Soós, A. *172 *199 *200
Soponis, A. R. *200
Soro, A. *269
Soszyńska-Maj, A. *93
Soufi, R. *40
Sousa, J. P. *44 *133 *135
South, A. *135
South, R. *421
Southern, R. *40 *222
Southwood, T. R. E. *246
Spalding, A. *352 *421 *422
Sparks, T. *12 *262 *346
Sparks, T. H. *357
Späth, J. *305
Speight, M. *200
Speight, M. C. D. *9 *12 *20 *34 *40 *41 *42 *47 *64 *86 *105 *123 *124 *135 *138 *140 *144 *146 *147 *156 *167 *168 *178 *187 *190 *191 *196 *200 *201 *202 *203 *204 *205 *206 *207 *243 *247 *282 *284 *293 *295 *306 *422 *442 *455 *456 *458 *462 *469 *471 *477 *479 *493 *509
Spencer, K. A. *207
Sperring, C. W. *422
Speyer, E. R. *479
Spies, M. *29
Spillane, C. *31 *110 *135 *289 *407
Spillar, R. *422
Spooner, B. *271

Spooner, B. M. *207 *306
Spooner, G. M. *306
Springate, N. D. *267
Ståhls, G. *187
Stainton, H. T. *422 *423
Stakelum, G. *83
Standen, R. *42
Stankiewicz-Fiedurek, A. *148
Stanley, C. K. *306
Stanley, D. *10 *65 *148 *258
Stanley, D. A. *16 *42 *161 *208 *266 *307 *358 *423 *501
Starf, P. *247 *307
Stark, B. P. *469
Starkey, J. *423
Starkey, J. S. *124
Starkey, W. *423
Starý, J. *197 *208
Starý, P. *283
Staunton, J. *208
Stawell, F. *423
Steel, W. O. *124 *125
Steen, J. W. *499
Steer, L. *49
Steinbauer, M. J. *192 *243 *510
Stelfox, A. W. *11 *17 *42 *44 *49 *66 *77 *125 *208 *222 *247 *269 *297 *307 *308 *309 *310 *311 *342 *423 *443 *456 *462
Stelfox, G. M. *42 *311 *423
Stendall, J. A. S. *125 *135 *208 *247 *423 *424
Stenhouse, D. A. *125
Stephens, J. F. *42 *125
Stephens, N. E. *208 *424
Stephenson, J. W. *208
Sterling, D. *424
Sterling, M. J. *347
Sterling, P. *382 *424
Sterling, P. H. *335 *369 *381 *424
Sterzyńska, M. *136
Stevens, S. *42 *424
Stevenson, P. C. *17 *312 *502
Stewart, A. *249
Stewart, A. J. A. *234
Stewart, E. A. *208
Stewart, J. H. *500
Stiff, A. *424
Stigenberg, J. *298 *311
Still, R. *406
Stinson, N. E. *42
Stofer, S. *128 *135
Stokes, K. *42 *125 *208 *247 *311 *424 *479
Stone, D. *133
Stone, G. N. *301 *303 *311
Stoneham, H. F. *424 *425
Stonell, B. S. *425
Storch, D. *175
Stout, J. *10 *42 *65 *148 *196 *258
Stout, J. C. *16 *17 *35 *42 *43 *125 *139 *161 *194 *205 *208 *266 *267 *287 *288 *299 *307 *311 *312 *358 *423 *425 *501 *502
Stowell, H. A. *425
Strange, C. D. *469
Strickland, P. *325 *425
Strode, C. *211 *512
Stroyan, H. L. G. *247
Stuart, H. B. *425
Stuart, P. *477
Stubbs, A. *158 *208
Stubbs, A. E. *143 *144 *208 *209
Stuijts, I. *110 *188
Stur, E. *209
Sublette, J. E. *197
Suddaby, D. *324
Suillebhain, S. *43
Sullivan, C. M. *43 *209
Sullivan, D. J. *138 *311 *425
Sumner, S. *311
Sumpter, J. P. *434
Sun, S.-P. *282
Sun, X. *136
Sunnucks, P. *262 *498
Sutton, P. *125 *462
Sutton, P. G. *125 *126 *456 *462
Sutton, S. L. *36
Svensson, B. G. *312
Swain, I. *126
Swash, A. *406 *455
Sway, C. van *425
Sweeney, O. *34 *113 *191 *452
Sweeney, P. *493
Sweeting, H. R. *425
Swinhoe, C. *425
Sykes, M. T. *44
Szadziewski, R. *162
Szél, G. *128
Szita, É. *247

Szyszko, J. *98

T

Tabari, M. *166
Taeger, A. *257 *282 *312
Tait, R. *425
Takács, V. *209
Talamas, E. J. *312 *313
Talbot, G. *425
Talbot, W. *425
Talebi, A. A. *269 *312
Tam, J. *251
Tams, T. *425
Tanaka, H. *247
Tanasijtshuk, V. N. *209
Tartally, A. *148
Tattersall, W. M. *17 *77 *269
Tavella, L. *313
Taylor, J. M. *126 *312
Taylor, K. *66
Taylor, P. *444
Tebb, R. H. S. *425
Telfer, M. *268 *324 *325
Telfer, M. G. *43 *65 *91 *126 *247 *462 *470
Telnov, D. *126
Tempelman, D. *493
Templeton, R. *50
Tennent, W. J. *425
Terry, M. G. W. *425
Tetlow, E. *66
Theobald, F. V. *209 *247 *248 *312
Theowald, B. *192 *209
Thiessen, J. *251
Thirlwell, I. R. *425
Thomas, A. *209
Thomas, C. D. *399 *425
Thomas, J. *425 *426
Thomas, J. A. *197 *303 *341
Thomas, S. J. *209
Thompson, E. *43 *248 *493
Thompson, F. C. *210
Thompson, G. B. *43 *47 *210 *477
Thompson, G. M. *43 *174 *210 *312 *511
Thompson, J. A. *426
Thompson, K. *426
Thompson, M. *248
Thompson, R. *10 *65 *148 *258 *325 *339 *426 *452 *456
Thompson, R. T. *126
Thompson, W. *43
Thomson, G. *426
Thomson, M. A. *414
Thornberry, H. *505 *511 *512
Thornhill, C. *426
Thornhill, W. B. *426
Thórsson, Æ. T. *233 *503
Thuróczy, C. *295 *312
Thurston, W. *166
Tickner, M. *324 *325 *445
Tiedeken, E. J. *17 *312 *502
Tiegs, S. D. *23
Tierney, D. *10 *13 *25 *26 *27 *31 *43 *97 *109 *126 *175 *210 *219 *221 *222 *235 *287 *393 *405 *452 *466 *467 *469 *485
Tighe, W. *43 *512
Timpany, S. *66
Tinne, P. F. *426
Tobias, V. I. *312
Tobin, C. M. *248
Trodd, W. *210
Todd, W. D. M. *126 *210 *512
Tokeshi, M. *209 *210
Tomlin, B. *70 *126
Tomlin, J. R. Le B. *96 *126
Tomlinson, D. *406
Toner, P. F. *126 *210 *222 *469 *493
Toney, R. *398
Tonguç, A. *210
Tonnoir, A. L. *210
Top-Jensen, M. *348
Tordoff, G. M. *356 *412
Torlesse, A. D. *426
Torp, E. *210
Torti, C. *48
Tortorici, F. *313
Tottenham, C. E. *126 *127
Towey, K. *77 *502
Townes, H. *313
Townsend, M. *427 *432
Townsend, M. C. *427
Tozer, E. R. *127
Trájer, A. J. *512
Traser, G. *135
Tratman, E. K. *43
Tremewan, W. G. *390 *427
Trevelyan, H. *210
Trewhella, S. *135

Triantis, K. *357
Triapitsyn, S. V. *313
Trifunov, S. *212
Trodd, W. *10 *210
Trodd, W. R. *210
Tubbs, R. *427
Tubbs, R. S. *427
Tuck, K. *393
Tuck, K. R. *427
Tucker. A. *434
Tuckey, J. W. T. *427
Tuffen, M. *211
Tuffen, M. G. *512
Tugwell, W. H. *427
Tully, O. *248
Tunmore, M. *354 *427 *428
Tuohy, C. F. *14
Turgut, S. *127
Turin, H. *98
Turnbull, C. *235 *504
Turner, A. *436
Turner, G. *313 *428
Turner, H. J. *43 *416 *428 *429
Turney, C. M. *213
Tutt, J. W. *127 *429 *430
Tuxen, S. L. *50
Tweedie, M. W. F. *434
Twomey, H. *20 *44 *82 *127 *167 *211 *218 *222 *231 *248 *456 *465 *469 *483 *493
Tyerman, W. A. *430
Tyner, A. *324 *325 *408 *412 *430 *431
Tyrrell, M. *456

U

Uffen, R. W. J. *430
Uhthoff-Kaufmann, R. R. *44 *127 *128
Ujvárosi, L. *211
Ulrich, W. *44
University College Dublin *211 *477
Urban, J. *128
Ussher, C. B. *430

V

Vafaei, R. *128
Vaillant, F. *211
Väisänen, R. *169
Vala, J.-C. *181 *213
Valentine, D. H. *44
Valentine, J. *211
Valladares, L. F. *120
Vallius, E. *430
Valterova, I. *282
van Appelghem, C. *207
van Asch, N. *211
van Bezouw, R. F. H. M. *131
van der Noll, L. *129 *248
van der Weele, R. *211
Van Driesche, R. G. *232 *503
van Duinen, G.-J. A. *212
van Langevelde, F. *131
van Nieukerken, E. J. *417 *430
van Swaay, C. *44 *430
van Veen, F. *271
Van Veen, F. J. F. *313
van Vondel, B. J. *128
van Zuijlen, J. W. A. *472
Vanbergen, A. *44
Vanbergen, A. J. *44 *128 *135
Vance, H. *254
Vandegehuchte, M. L. *248
Vandewalle, M. *44
Vane-Wright, R. I. *30 *143 *144 *431
Varadinova, E. *40
Vaucheret, S. *471
Vaux, A. G. C. *211 *512
Velterop, J. H. C. *145
Venhorst, B. *512
Venn, S. *98
Venour, S. *222
Venturi, F. *211
Verberk, W. C. E. P. *212
Verdonschot, R. C. M. *493
Verdyck, P. *128
Verheyde, F. *313
Verity, R. *431
Vermeulen, R. *98
Verrall, G. H. *212
Verves, Y. G. *212
Viitasaari, M. *257 *282 *313
Vikberg, V. *299 *313 *315
Vilela, C. R. *144
Vilkamaa, P. *172
Vine Hall, J. H. *431
Viney, M. *44 *493
Vink, C. J. *118 *299 *511
Viraktamath, C. A. *249
Visser, M. *31
Vivian, -. *431

Vlug, H. J. *313
Vockeroth, J. R. *207 *212
Volpato, A. *139
von Dohlen, C. D. *454
Von Fumetti, S. *9
Vorst, O. *128
Voss, E. *128
Vujić, A. *180 *187 *212

W

Waghorne, D. M. *48
Wagner, R. *156 *212
Wainwright, C. J. *212
Wakeham-Dawson, A. *431
Wakely, S. *431
Waldren, S. *243
Walker, A. K. *313
Walker, F. *212 *213 *248 *313 *314
Walker, F. H. *431
Walker, J. J. *128 *248 *431
Walker, P. *295
Wall, D. *456
Wall, R. *129 *477
Wallace, A. *431
Wallace, B. *190 *493 *494
Wallace, I. *493
Wallace, I. D. *146 *190 *480 *489 *493 *494
Wallace, P. F. *213
Walls, D. P. *314
Waloff, N. *128
Walsh, A. *34 *113 *191 *223 *452
Walsh, F. *431
Walsh, G. B. *128
Walsh, J. *33 *109 *112 *128
Walsh, L. *129 *512
Walsh, L. E. *248 *513
Walsh, M. *431
Walsh, M. I. *136
Walsh, M. L. *44
Walsh, P. *344
Walsh, P. F. *101 *129 *513
Walsh, P. M. *344 *404 *431
Walshe, A. *248 *491
Walshe, E. W. H. *431
Walters, K. F. A. *237 *505
Walters, M. P. *431 *462
Walton, G. A. *25 *44 *227 *238 *244 *248 *249
Walton, J. *129
Wang, M.-F. *213
Wang, R.-R. *213
Ward, D. *44 *129 *213 *249 *314 *431 *513
Ward, D. P. *129
Ward, V. K. *255
Ward, W. T. C. *431
Wardlaw, J. C. *197 *303
Waring, P. *324 *325 *348 *427 *431 *432 *437
Warren, B. C. S. *432
Warren, M. *326 *367 *404 *405
Warren, M. S. *326 *333 *432
Warren, W. *432
Warrington, B. P. *213
Wasscher, M. *454
Watkins, N. A. *432
Watkinson, I. A. *363
Watson, J. E. *213
Watt, A. D. *44 *74 *128 *135 *266
Watts, C. W. *432
Weatherup, D. R. M. *44
Weaving, H. *129
Webb, A. *213
Webb, D. *331
Webb, J. R. *100
Webb, M. D. *249 *250
Webb, M. R. *432
Wedd, D. *351 *352 *361 *391 *410 *420 *432 *433
Wedd, D. J. *351
Weidlich, M. *486
Weir, A. *44 *129
Weir, D. *324 *325
Weir, J. C. *432
Weir, J. J. *432
Welch, R. C. *129 *314 *440 *472
Welch, R. J. *314
Welsh, R. *129
Wenman, G. *433
Werner, D. *159
Werner, D. J. *249
West, A. B. *473
West, B. K. *433 *434
West, S. A. *301
Westgarth-Smith, A. R. *434
Westropp, S. *434
Westropp, W. S. D. *434
Westwood, J. O. *387
Wetterer, J. K. *314

Weyl, R. *109
Weyl, R. S. *81
Weyman, G. *129
Whalley, P. E. S. *434
Wharton, R. A. *313 *314 *315
Whatmough, J. A. *434
Wheeler, A. S. *434
Wheeler, G. *434
Wheeler, J. *66
Wheeler, W. C. E. *434
Whelan, C. Blake *434
Whelan, J. *10 *36 *38 *65 *148 *339
Whelan, K. F. *223
Whelan, P. *10 *65 *129 *148 *258
Wheller, J. *376
Whelton, A. *242
Whiffin, A. L. *305
Whilde, A. *44
Whilde, T. *45
Whitaker, A. P. *477
White, A. *434
White, B. *25 *139 *466
White, G. B. *159 *160
White, I. M. *213 *235
White, J. *23 *218 *235 *466
White, J. H. *368
White, W. Buchanan *434
Whitehead, P. F. *78 *129
Whitehouse, N. J. *130 *213
Whiteman, S. A. *272
Whittaker, J. B. *416
Whittington, A. E. *443
Wieczorek, K. *249
Wiemers, M. *395
Wilbraham, R. J. *513
Wilding, R. *434
Wilkins, N. P. *249
Wilkins, P. *126
Wilkinson, C. *417
Wilkinson, D. S. *315 *434
Williams, A. *434
Williams, C. *139 *179 *213 *315 *510
Williams, C. B. *45 *434 *435
Williams, C. D. *113 *130 *146 *149 *178 *179 *181 *208 *213 *366
Williams, D. J. *249
Williams, E. *435
Williams, H. *435
Williams, H. B. *351 *435
Williams, H. C. *223
Williams, L. *130
Williams, P. H. *315
Williams, R. P. *435
Williams, R. S. Gwatkin- *435
Williams, S. A. *130
Williams, W. R. *357
Williamson, M. *129 *512
Williamson, M. S. *248 *513
Willis, R. J. *500 *513 *514
Willmott, K. J. *326 *341
Wilson, A. *326
Wilson, C. *435
Wilson, C. J. *413 *435
Wilson, D. *435
Wilson, G. *45 *213
Wilson, J. F. *436
Wilson, J. S. *436
Wilson, K. *45
Wilson, M. *199 *249
Wilson, M. R. *249 *250 *363 *381
Wilson, M. W. *34 *113 *191 *452
Wilson, R. J. *425
Wilson, R. S. *214
Wilson, S. W. *225
Wilt, T. *436
Wiltshire, E. P. *436
Winder, J. M. *45 *130 *214 *223 *251 *443 *456 *469 *494
Winder, L. M. *118 *299 *511
Winokur, L. *436
Winter, T. G. *112
Wisdom, R. *211
Wise, E. J. *223 *469 *491
Wistow, S. *87 *130 *189 *190 *191 *242 *243 *293 *295 *436 *503
Witek, M. *148
Withers, P. *156 *206 *211 *214 *443
Witmond, L. *315
Wögerbauer, C. M. *223
Woiwod, I. *370
Wolfe, J. J. *315 *390 *436
Wollaston, T. V. *130
Womersley, H. *136
Wood, R. B. *150 *214
Wood, T. *130
Wood-Baker, C. S. *214 *227 *250
Woodcock, B. A. *44 *128 *130
Woodforde, F. C. *436
Woodgate, J. N. *301

Woodroffe, G. E. *237 *250 *251
Woodrow, W. *6 *54 *224 *252 *325 *437 *456
Woods, M. *18 *78
Woodward, C. A. *194
Woodward, G. *23 *45 *130 *214 *223 *468 *469 *486 *492 *494
Woodward, S. F. *472
Workman, W. H. *437
Worms, C. de *437
Worms, C. G. M. de *315 *437
(see also de Worms, C. G. M.)
Wright, -. *438
Wright, A. E. *399 *438
Wright, D. W. *45 *214
Wright, E. P. *136 *438
Wright, J. F. *45 *130 *214 *223 *251 *443 *456 *469 *494
Wright, G. *10 *45
Wright, G. A. *17 *312 *502
Wright, W. *438
Wright, W. S. *438
Wu, S.-A. *232 *503
Wyatt, N. P. *215
Wykes, N. G. *438
Wynhoff, I. *131
Wynne, C. A. *45
Wynne, S. *66
Wyse, L. H. Bonaparte *387
(also see Bonaparte-Wyse, L. H.)
Wyse Jackson, M. *31 *109 *221 *287 *405 *452 *467
Wyse Jackson, P. N. *45
Wyse Jackson, P. S. *32 *45

X

Xiao, L. *221 *468

Y

Yağci, Ş. *174
Yang, D. *172
Yari, Z. *298
Yarrow, I. H. H. *315
Yates, T. J. *411
Yerbury, J. W. *215
Yildirim, E. M. *315
York, P. V. *381
Young, H. *436
Young, J. *44
Young, M. *419
Young, M. R. *395 *396 *422 *438
Young, R. *35 *45 *411

Z

Zabransky, P. *89
Zahradnik, J. *231
Zamora-Muñoz, C. *487
Zatwarnicki, T. *180
Zhang, D. *213
Zinovjev, A. G. *315
Živić, I. *220
Zounos, A. K. *178
Zuska, J. *215
Zwick, H. *215
Zwick, P. *469

The Back Cover

Window Winged Sedge (*Hagenella clathrata*)

In 2016, Tina Claffey discovered the Window Winged Sedge (*Hagenella clathrata*) new to Ireland beside Abbeyleix Bog (County Laois). Subsequently in 2018, Martin Gammell and Caitriona Carlin found the caddisfly at three new sites in County Galway (Gammell, M. P., Carlin, C. M., O'Connor, J. P., O'Connor, M. A. and Brophy, J. T. (2018) The Window Winged Sedge *Hagenella clathrata* (Kolenati, 1848) (Trichoptera: Phryganeidae) confirmed as an Irish species. *Bulletin of the Irish Biogeographical Society* **42**: 45-57).

Inside back cover

A live dark coloured adult of the Window Winged Sedge *Hagenella clathrata*, 2018, County Galway. Photograph: Caitriona Carlin.

Back cover

A live normally coloured adult of the Window Winged Sedge *Hagenella clathrata*, 2018, County Galway. Photograph: Martin Gammell.





ISBN 978-1-9164218-2-0